

FIG. 2A

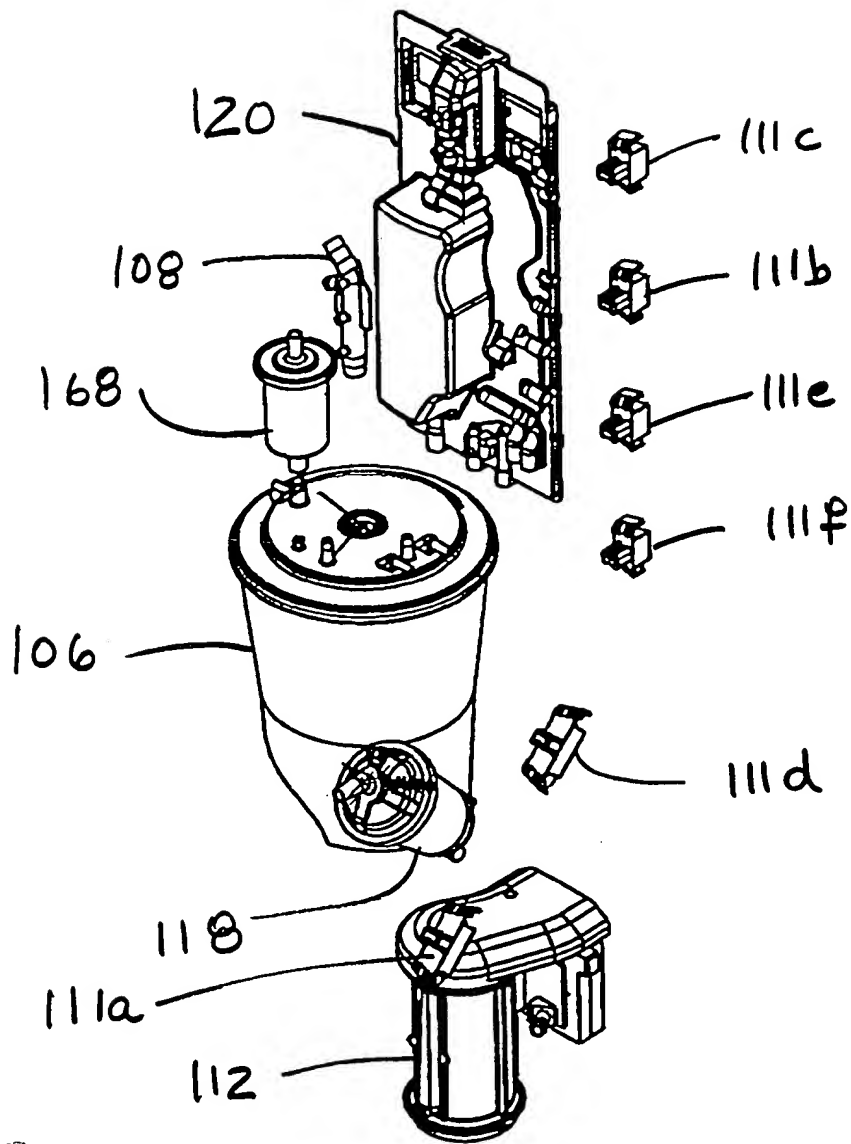


FIG. 2B

This schematic diagram illustrates a complex medical device for blood processing, likely for extracorporeal circulation. The system is composed of several interconnected components and fluid paths:

- Fluid Inlets and Outlets:**
 - 104:** A main fluid inlet on the left side.
 - 122:** A main fluid outlet at the bottom left.
 - 156:** An outlet at the top left.
- Reservoirs and Chambers:**
 - 106:** A "Venous Reservoir" containing a filter (87) and connected to a "PRE-DYSPAG FILTER" (95).
 - 301:** A "Sequestration Reservoir" with internal components 320 and 322.
 - 302:** A "Cardioplegia Heat Exchanger" and "Bubble Trap" unit.
 - 303:** An "Arterial Filter" connected to a "Bubble Sensor" (114).
- Pumps and Flow Control:**
 - 84:** A pump at the bottom right, connected to an "Oxygenator Heat Exchanger" (112).
 - 404:** A pump or flow control device in the upper central region.
 - 405:** A pump or flow control device near the arterial filter.
- Sensors and Monitoring:**
 - 96:** A "Bubble Sensor" on the top left line.
 - 114:** A "Bubble Sensor" near the arterial filter.
 - 153:** A sensor or valve on the top left line.
 - 158:** A "Bubble Sensor" on the top left line.
 - 172:** A sensor or valve on the middle left line.
 - 186:** A sensor or valve on the middle left line.
 - 170:** A sensor or valve on the middle left line.
 - 175:** A "Transducer Dog" (a mechanical test load) connected to the venous reservoir line.
- Other Components:**
 - 136, 140, 142, 146, 148, 152, 160, 162, 164, 166, 168, 176, 180, 182, 184, 186, 190, 192, 192a, 307, 308, 309, 310, 311, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000.** Various other numbered components and connection points throughout the system.

FIG. 3A

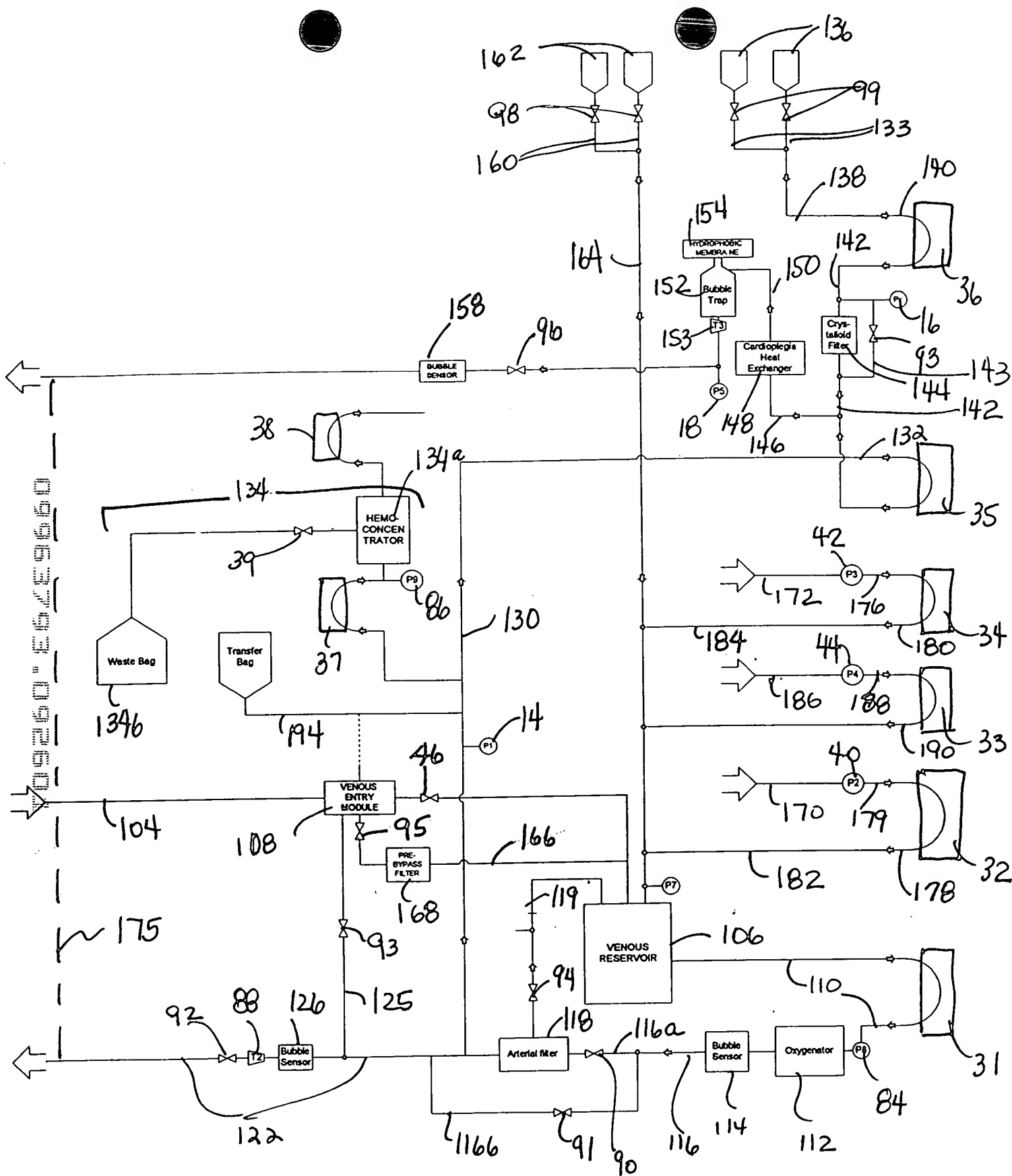


FIG. 12

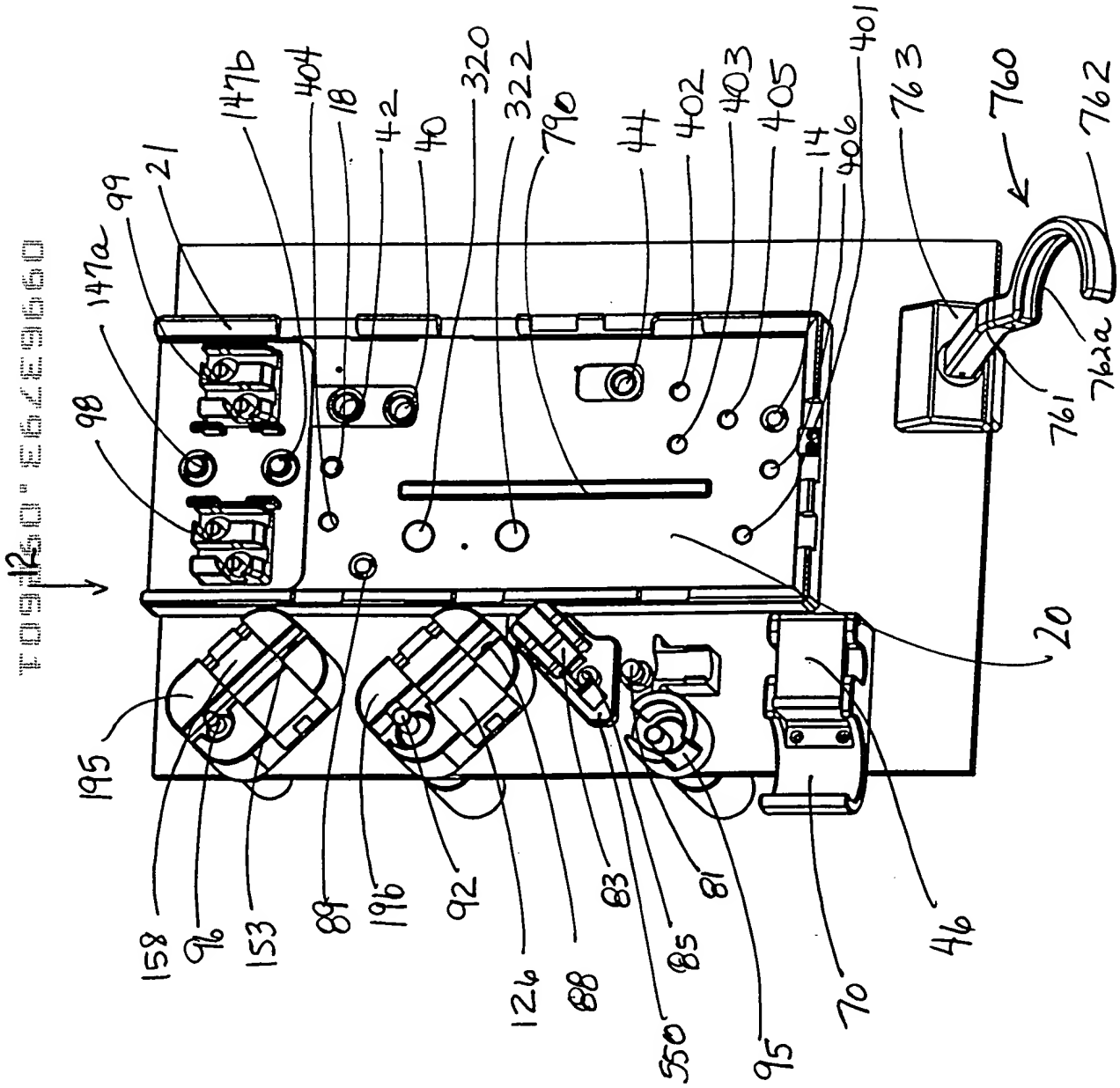


FIG. 4

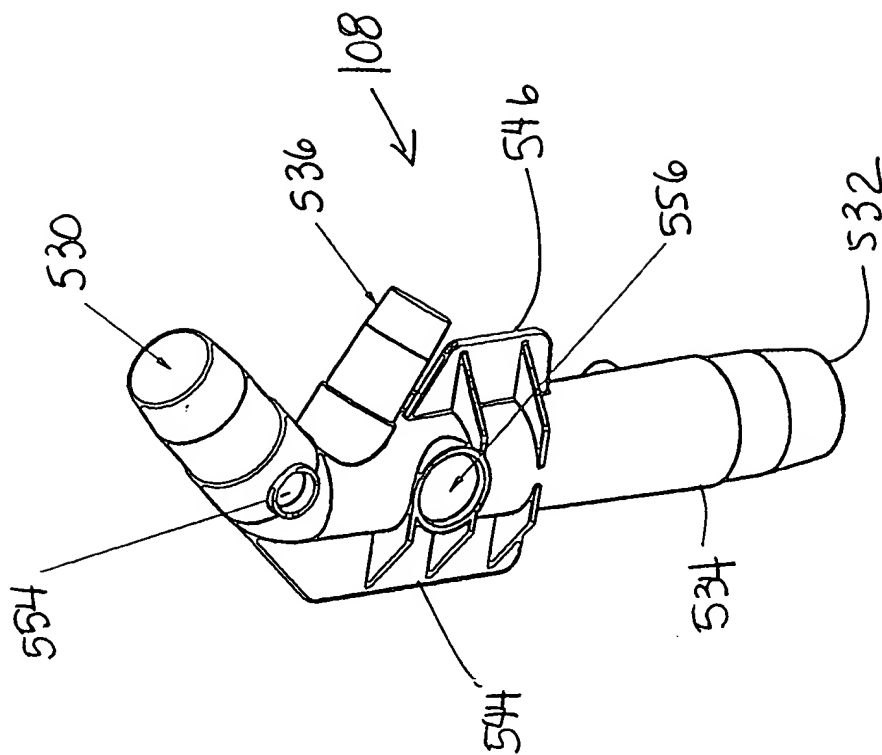


FIG. 5B

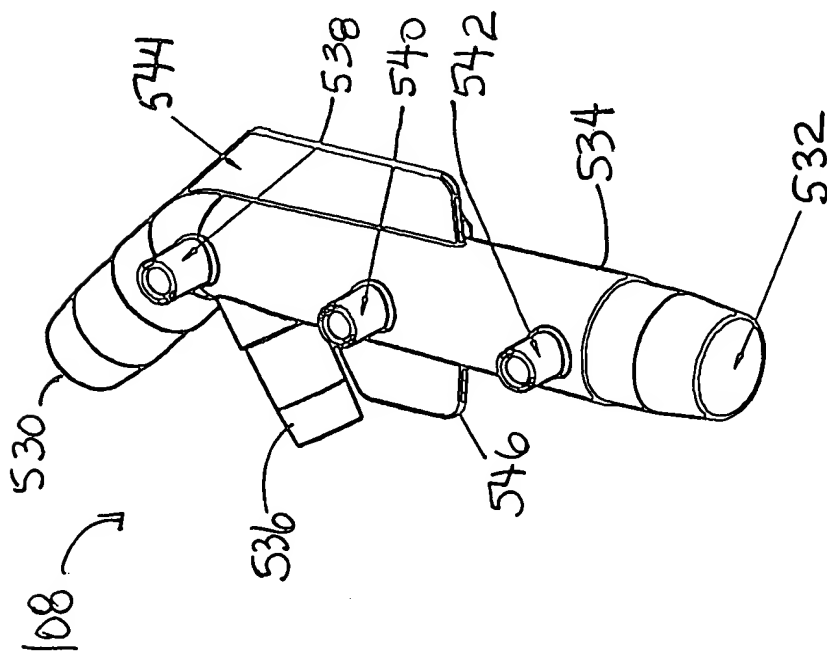


FIG. 5A

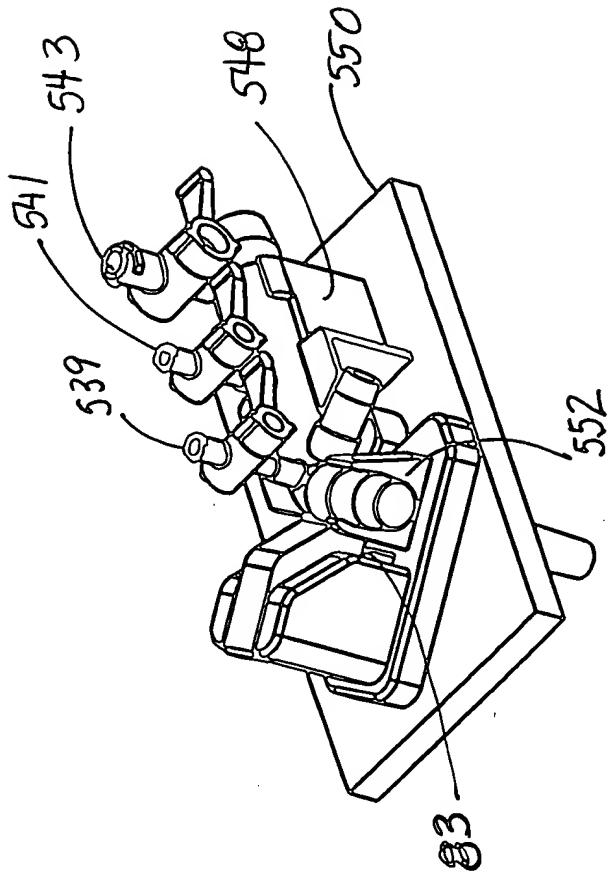


FIG. 5D

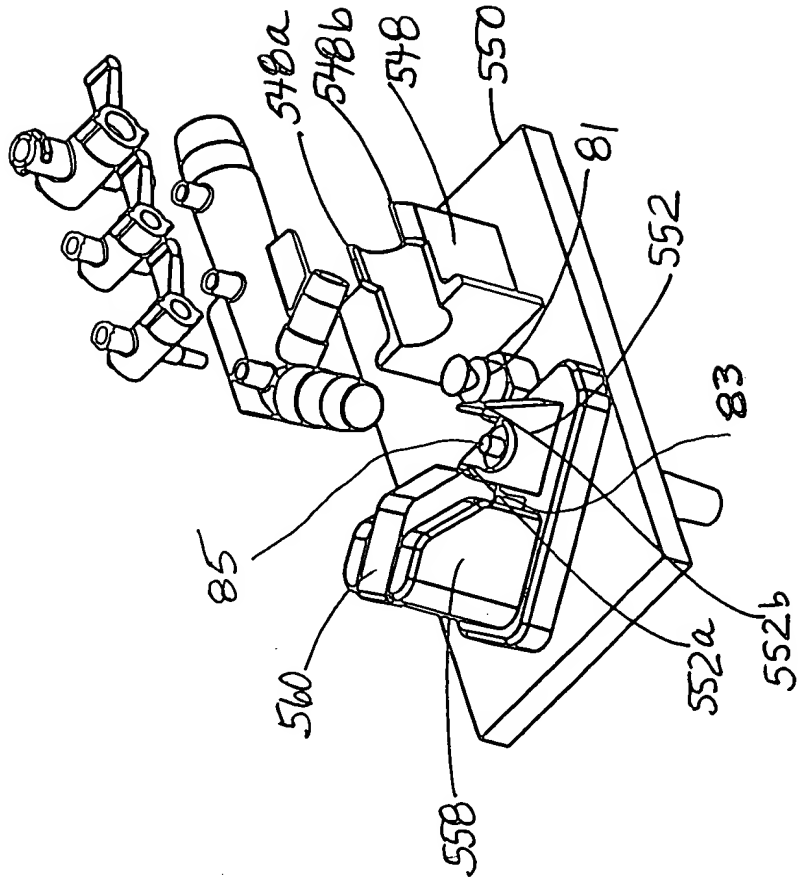


FIG. 5C

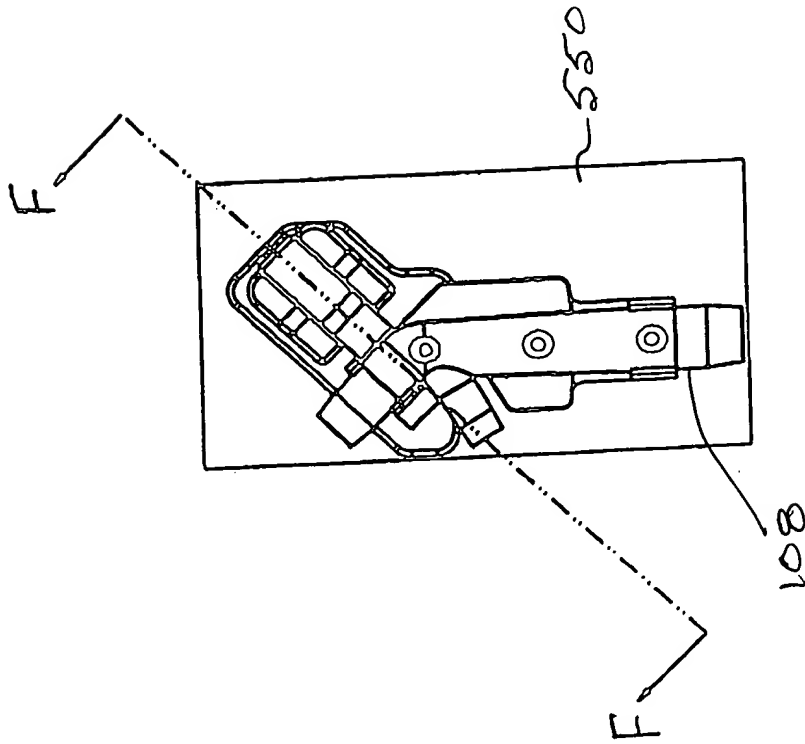


FIG. 5E

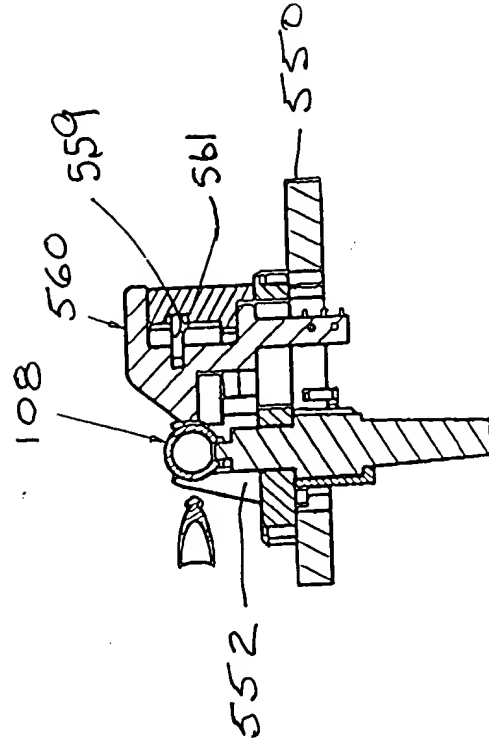


FIG. 5F

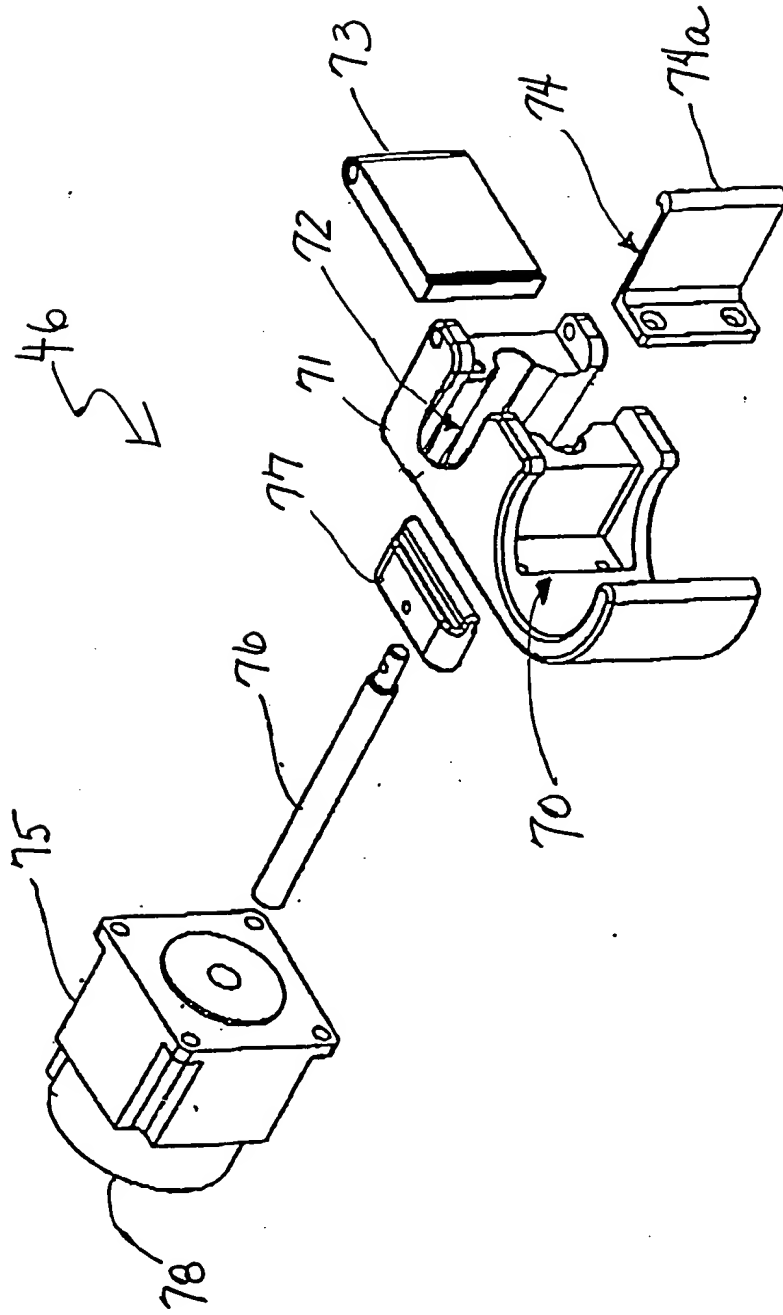
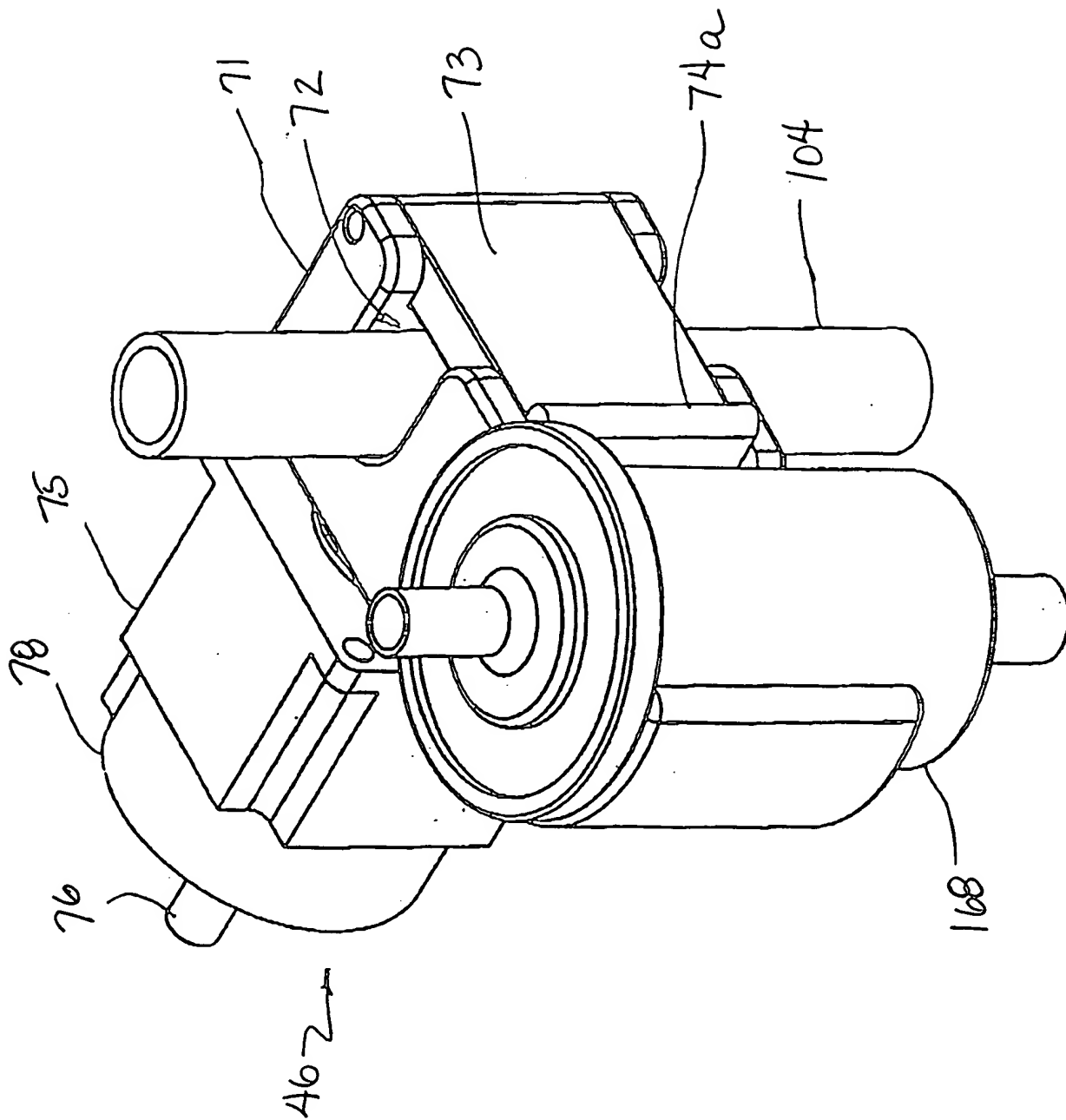


FIG. 6A



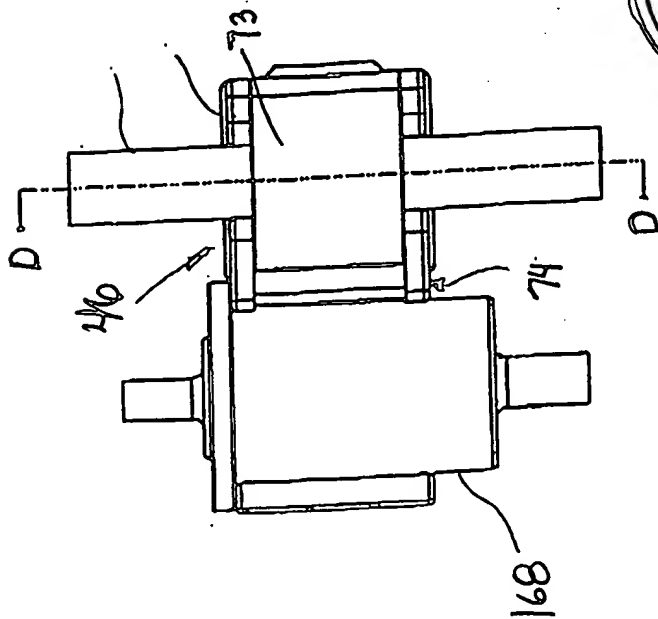


FIG. 6C

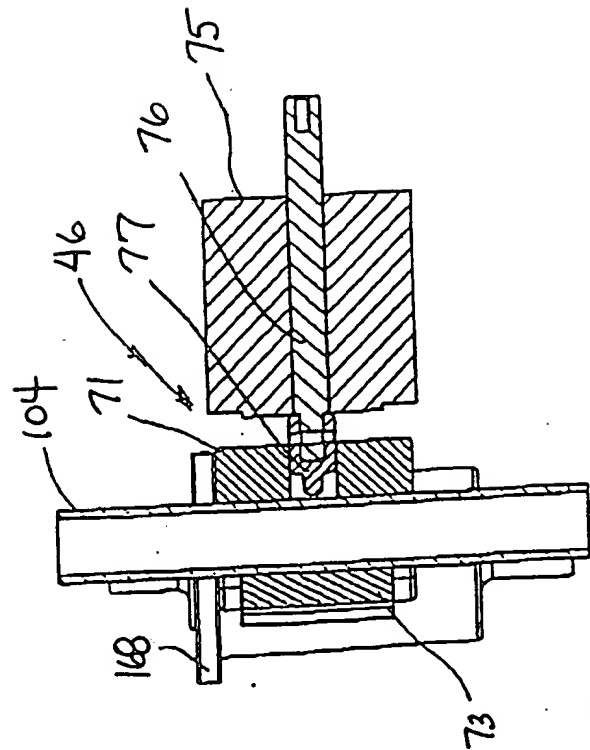


FIG. 6D

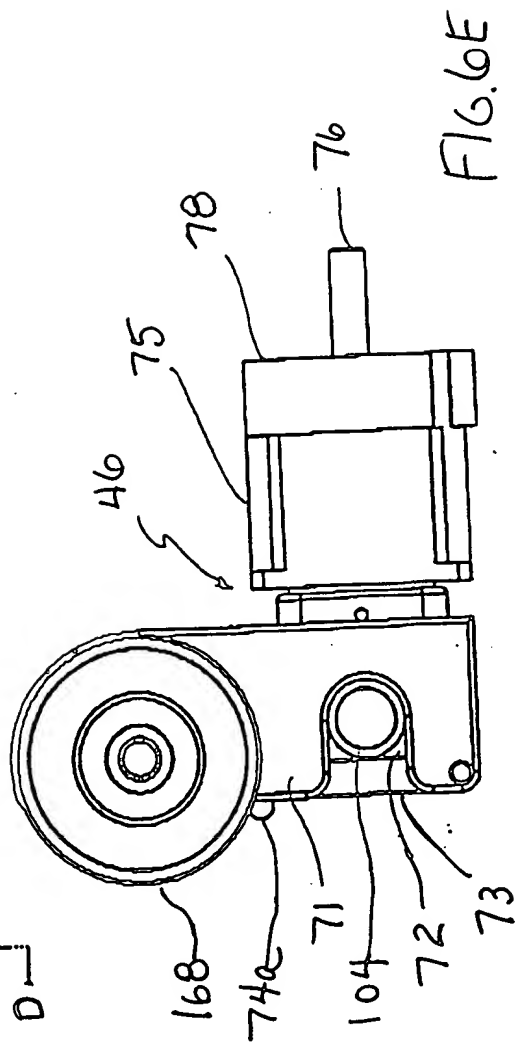


FIG. 6E

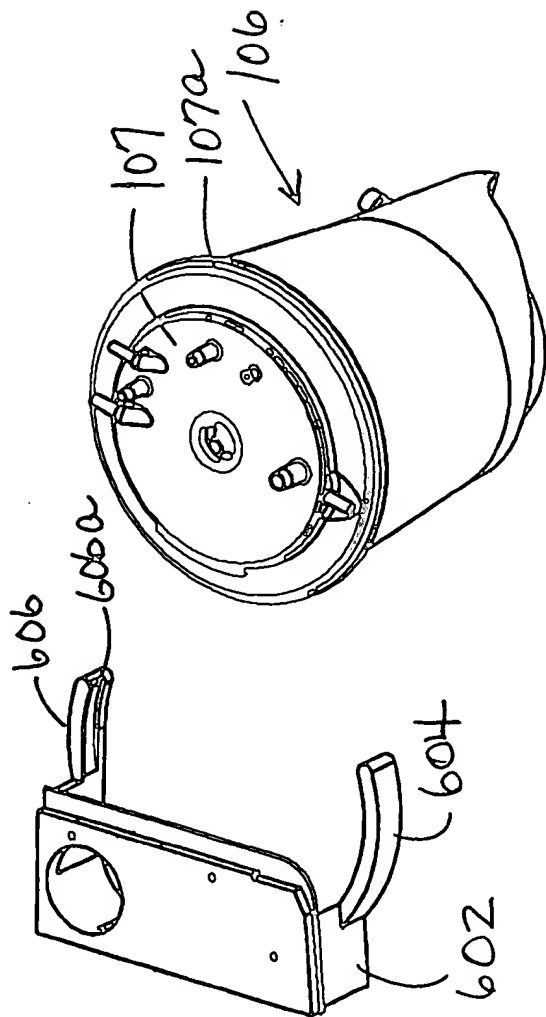


FIG. 7A

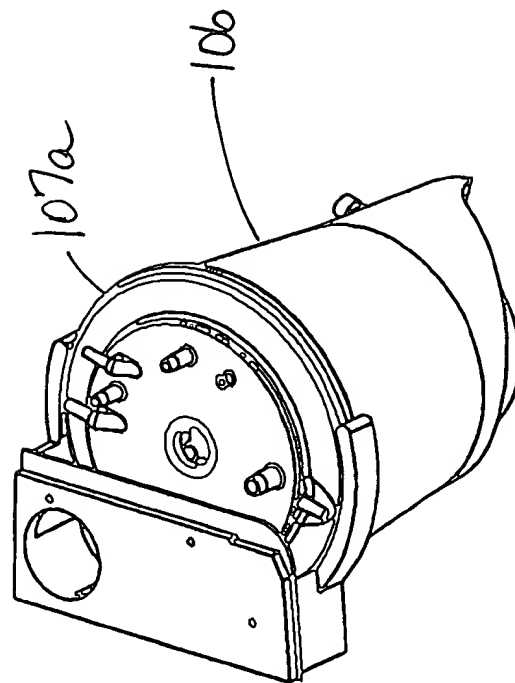
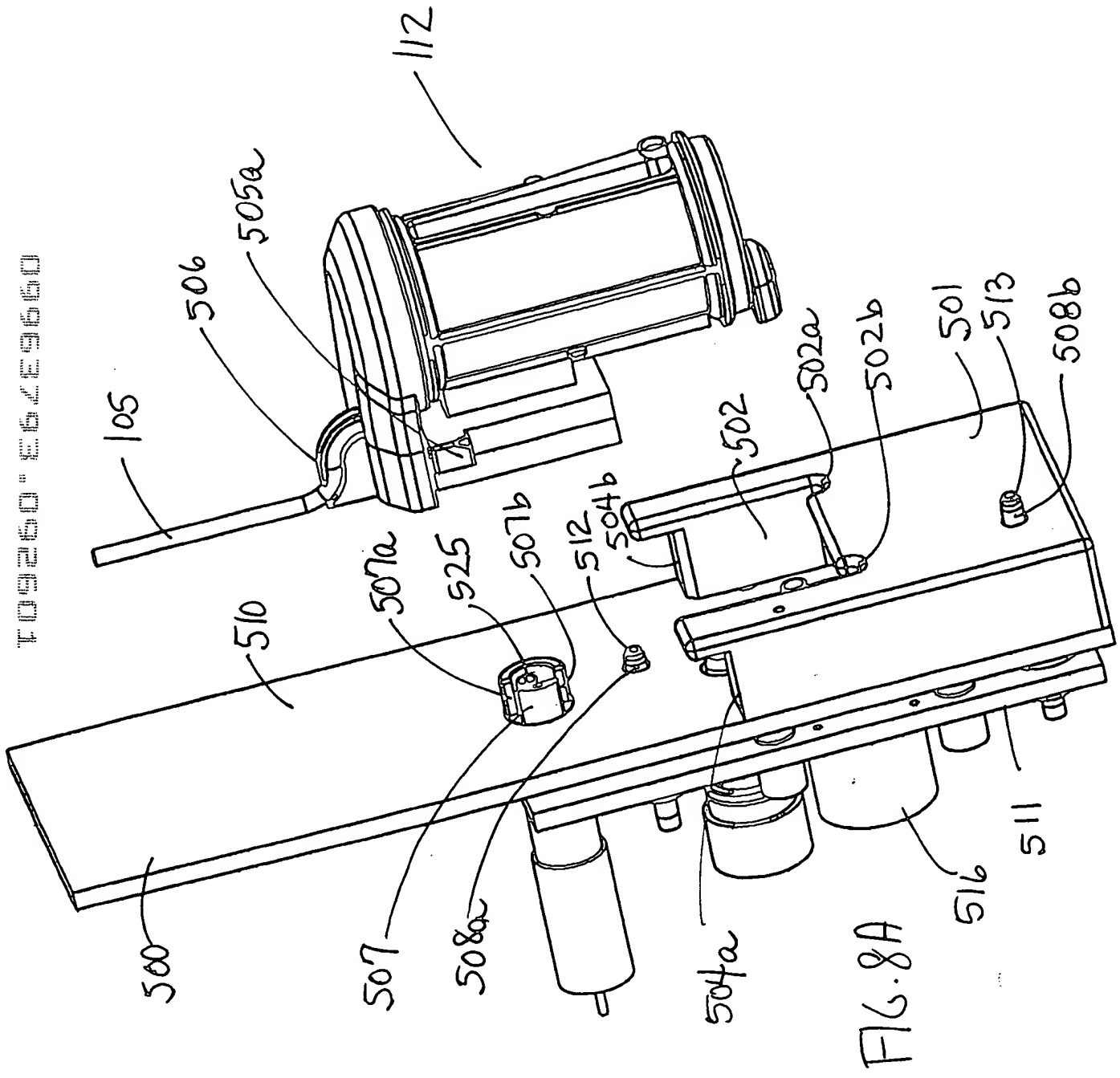


FIG. 7B



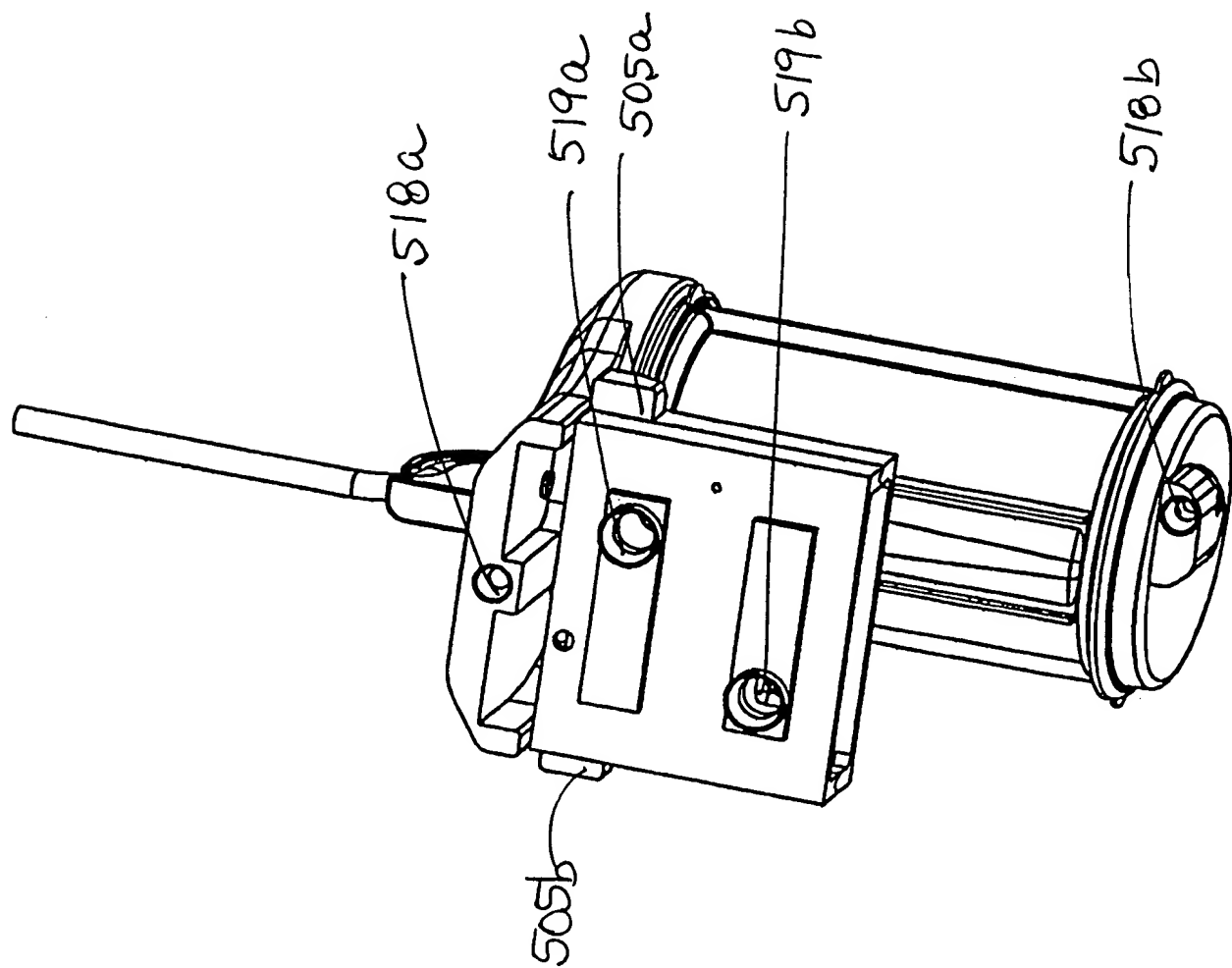
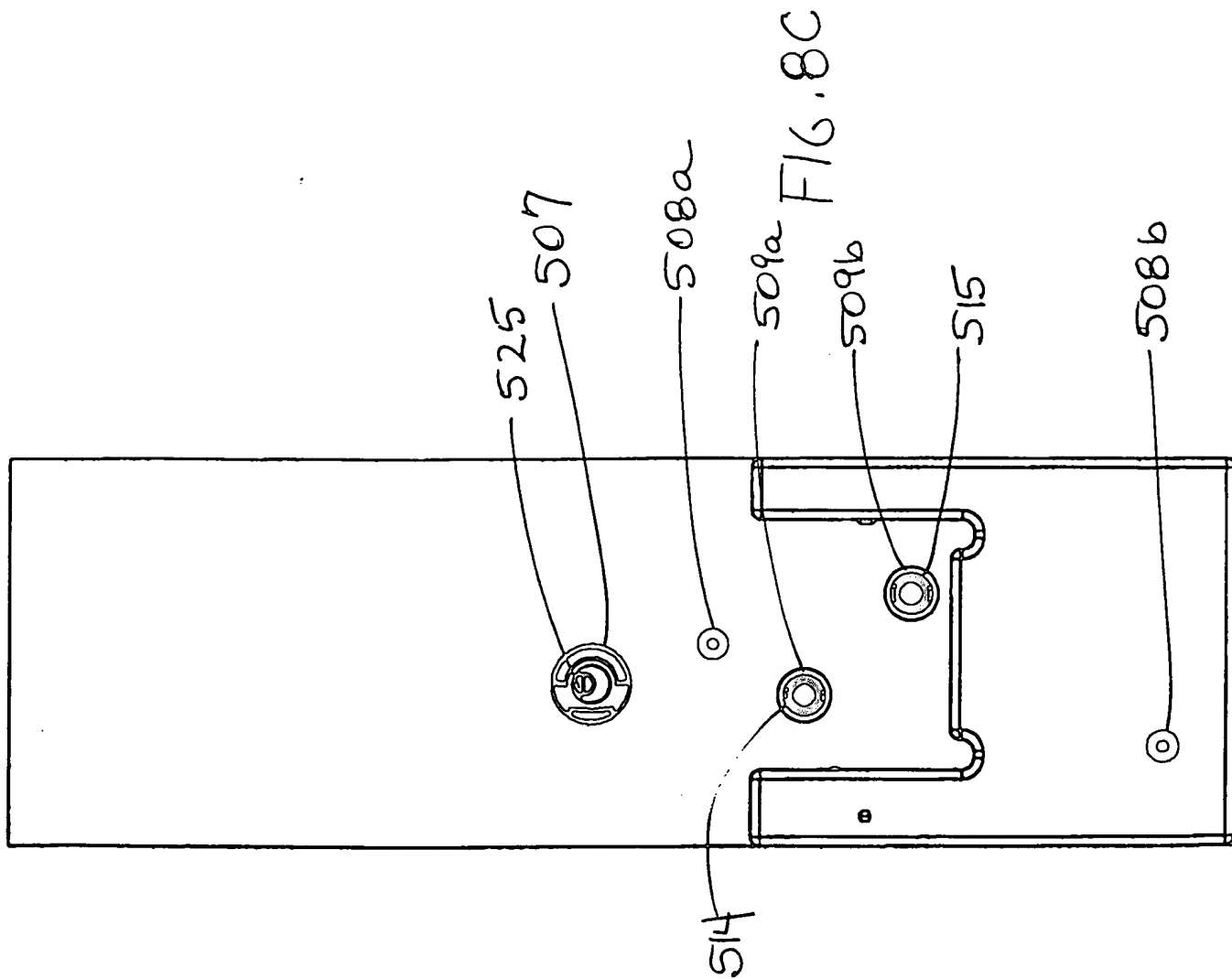


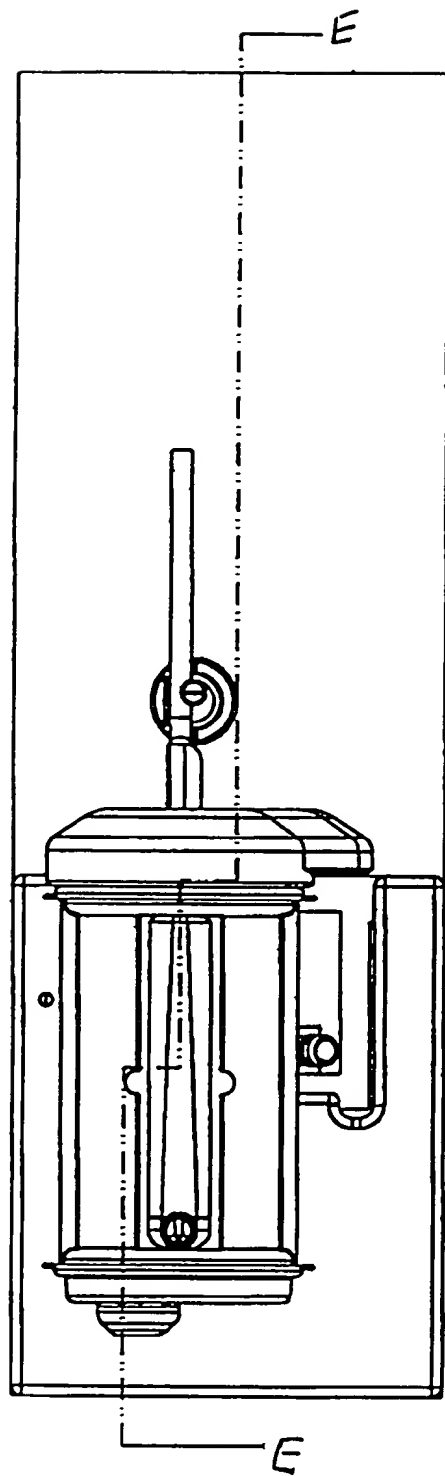
FIG. 8B

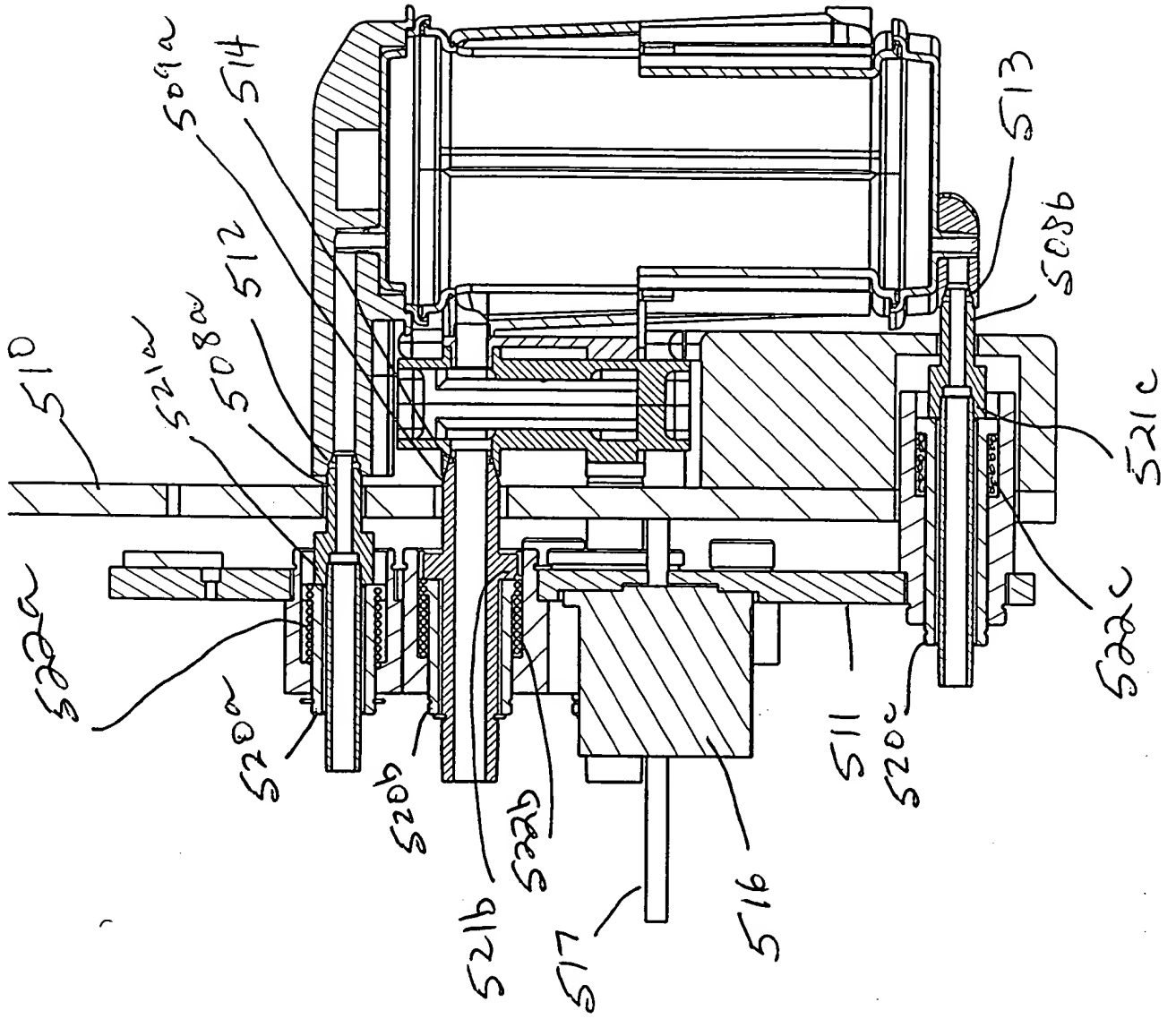
FIG. 260" E52E91660



09260" E62E9660

FIG. 8D





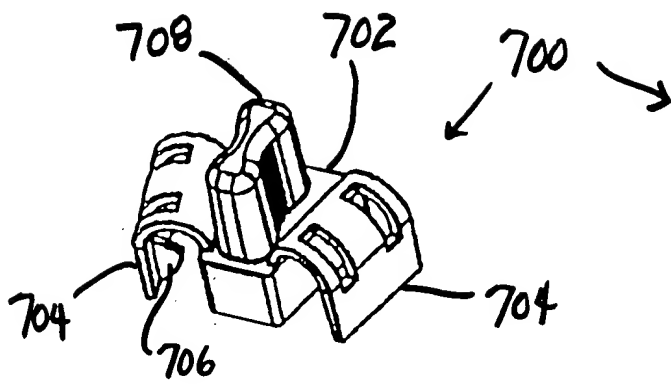


FIG. 9A

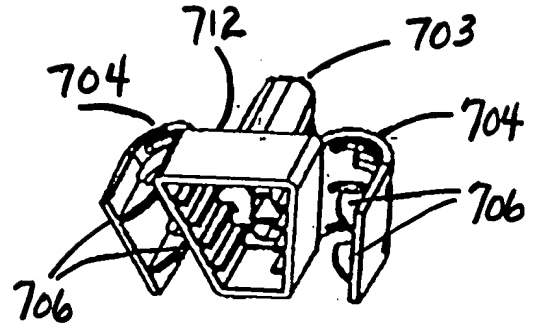


FIG. 9B

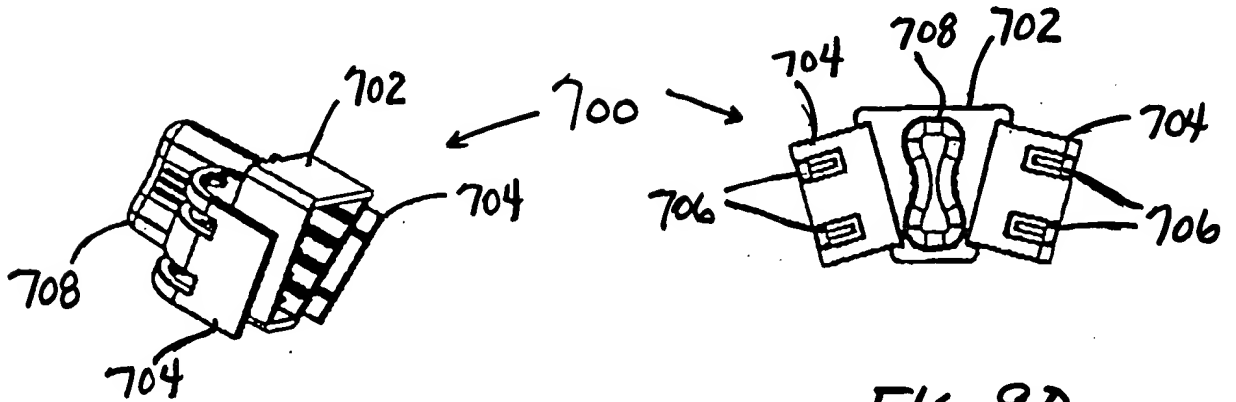


FIG. 9C

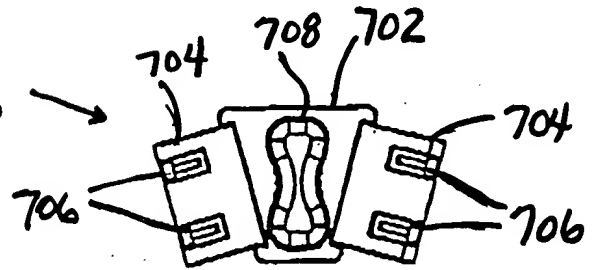


FIG. 9D

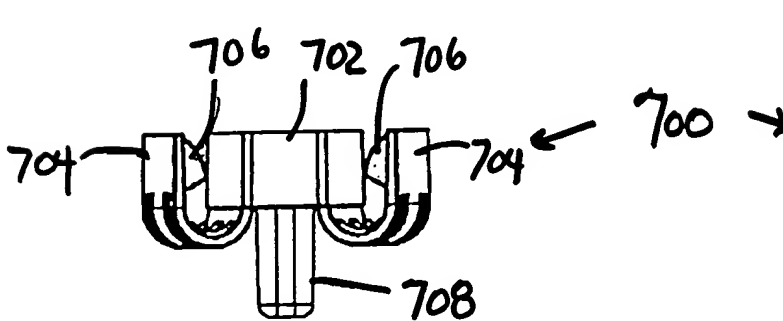


FIG. 9E

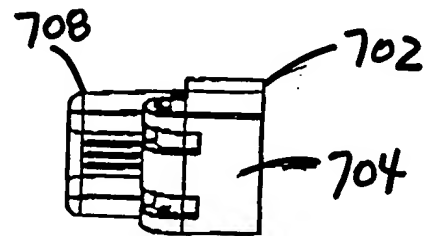


FIG. 9F

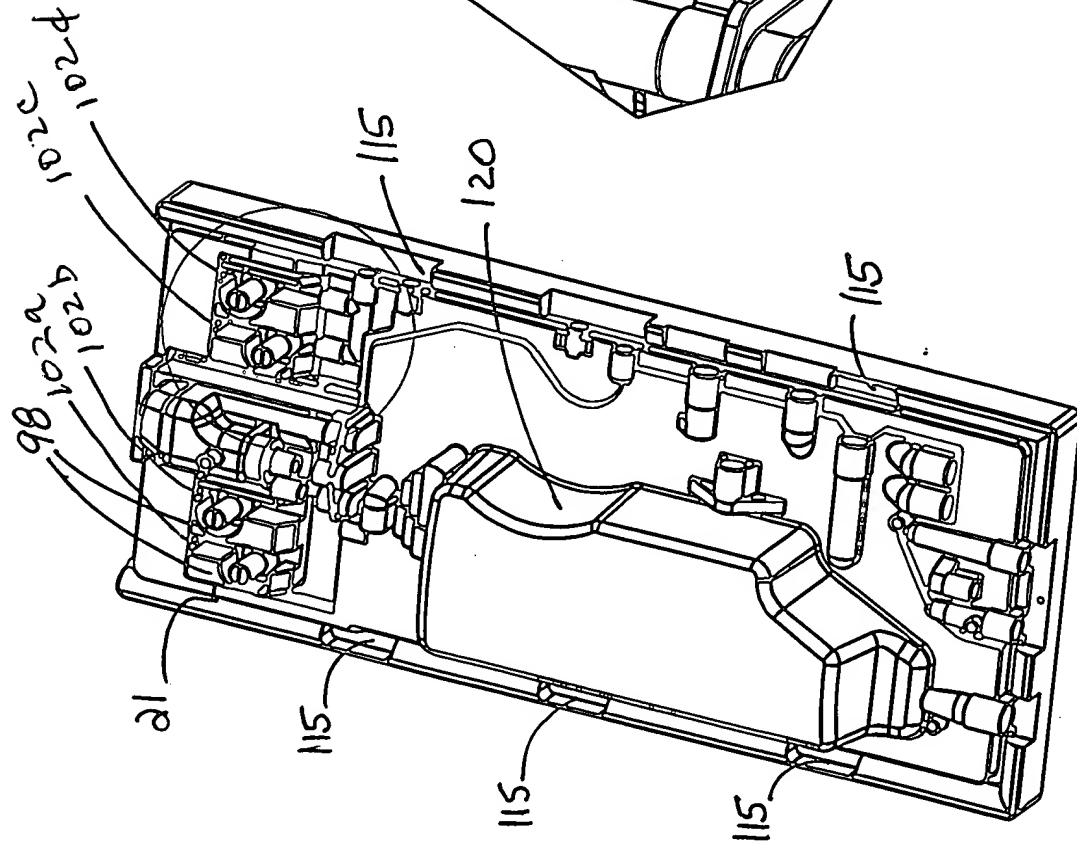


FIG. 10A

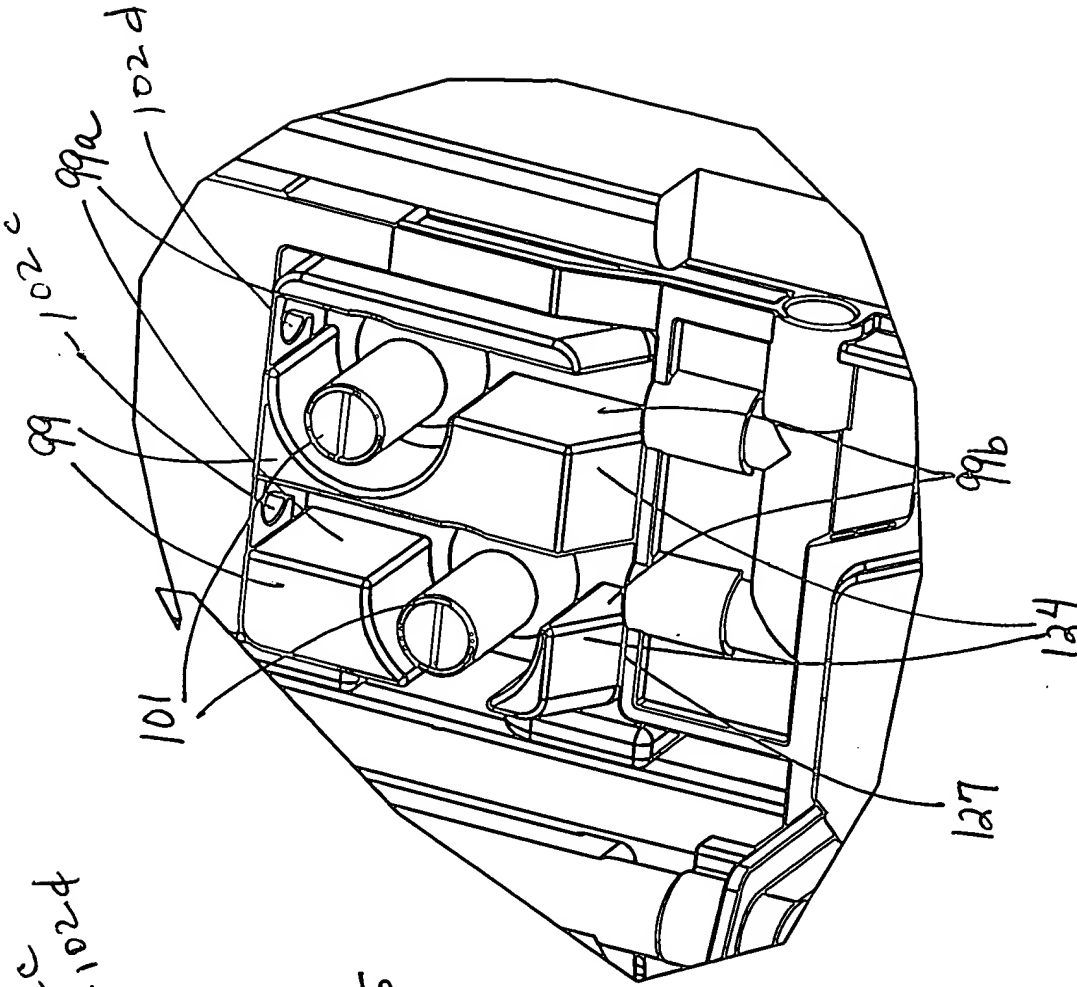


FIG. 10B

109260" E6ZE9660

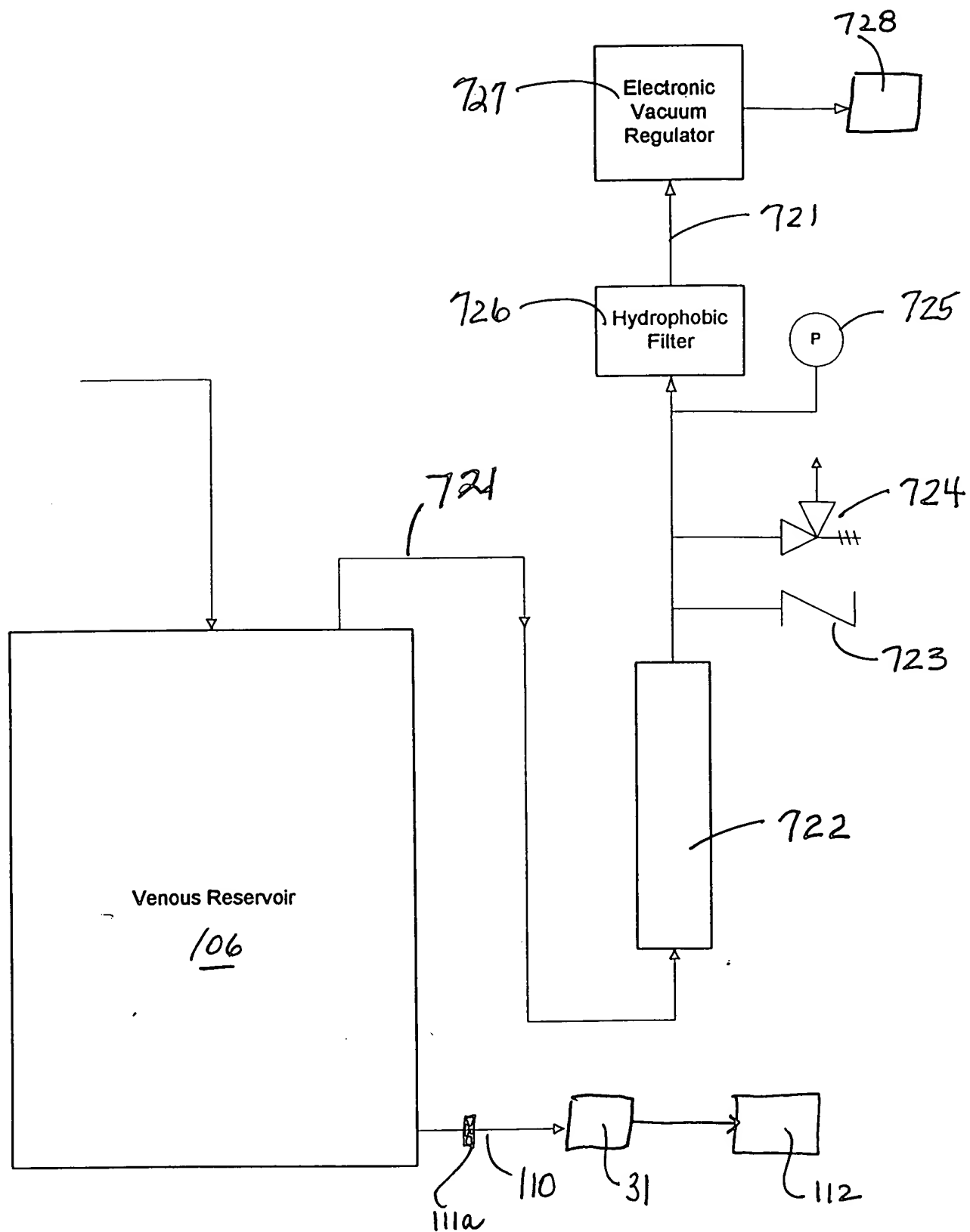


FIG. 11

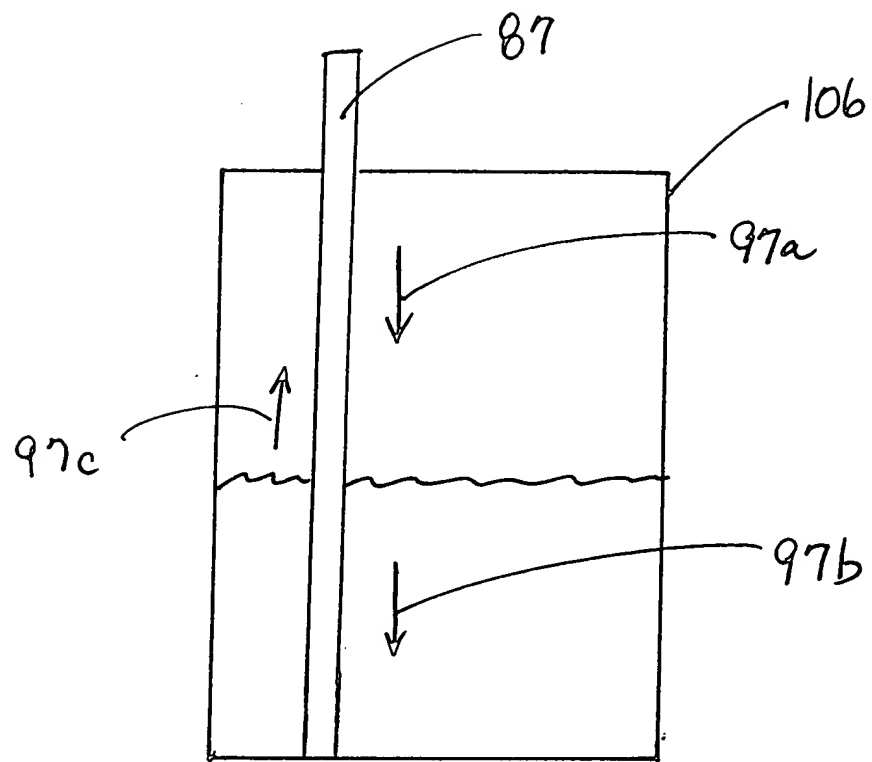
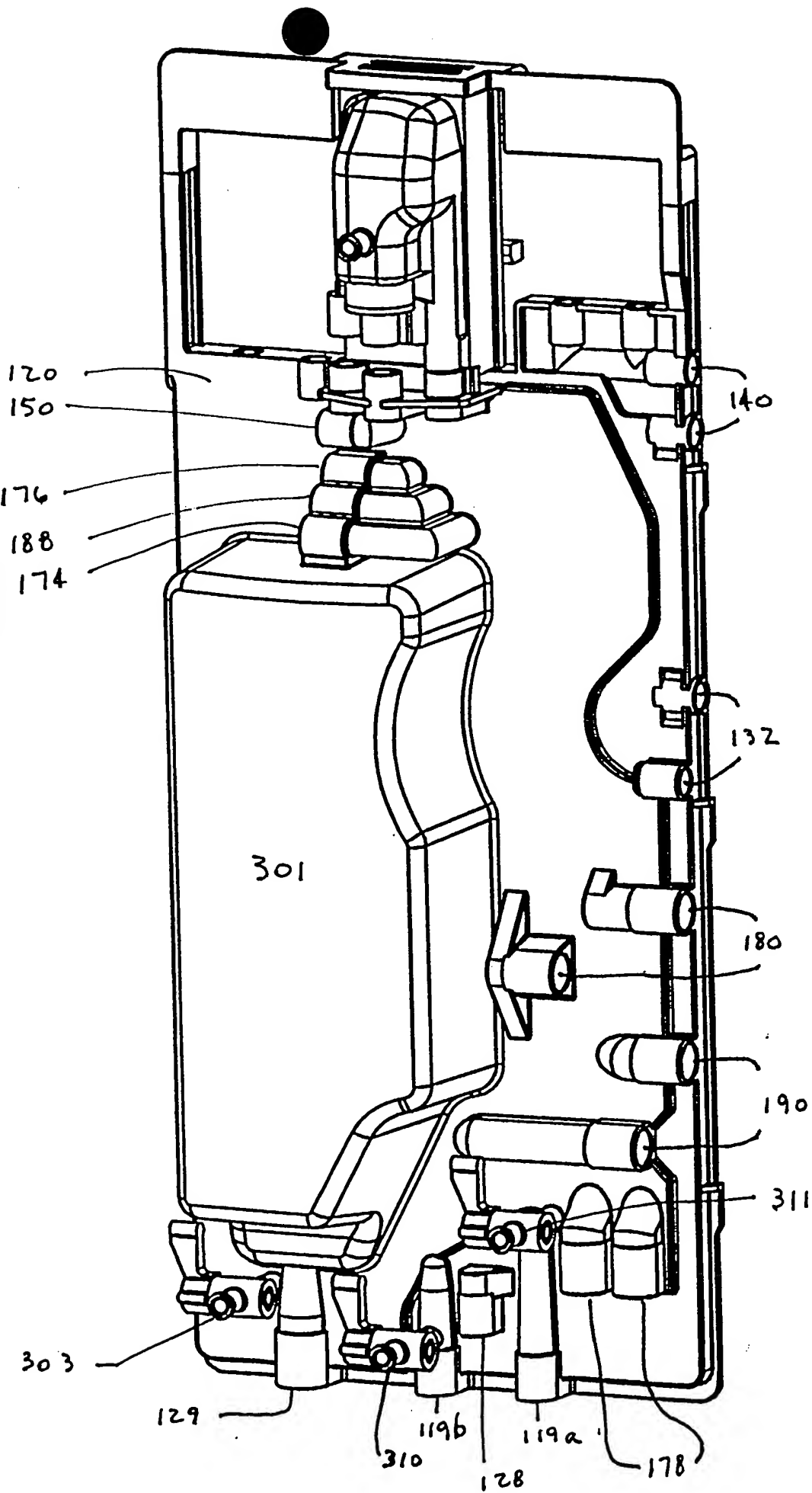


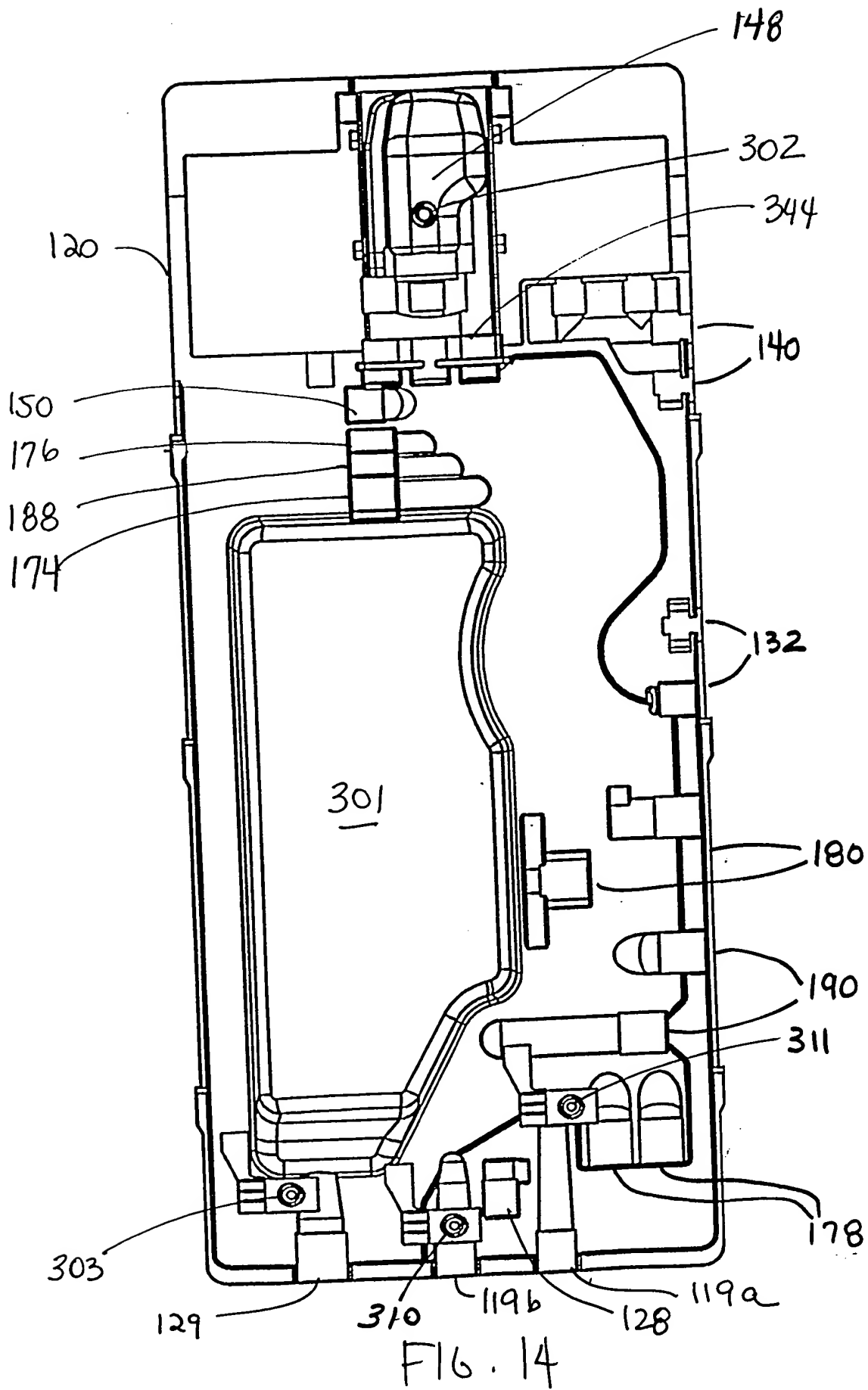
FIG. 12

09963793.092601

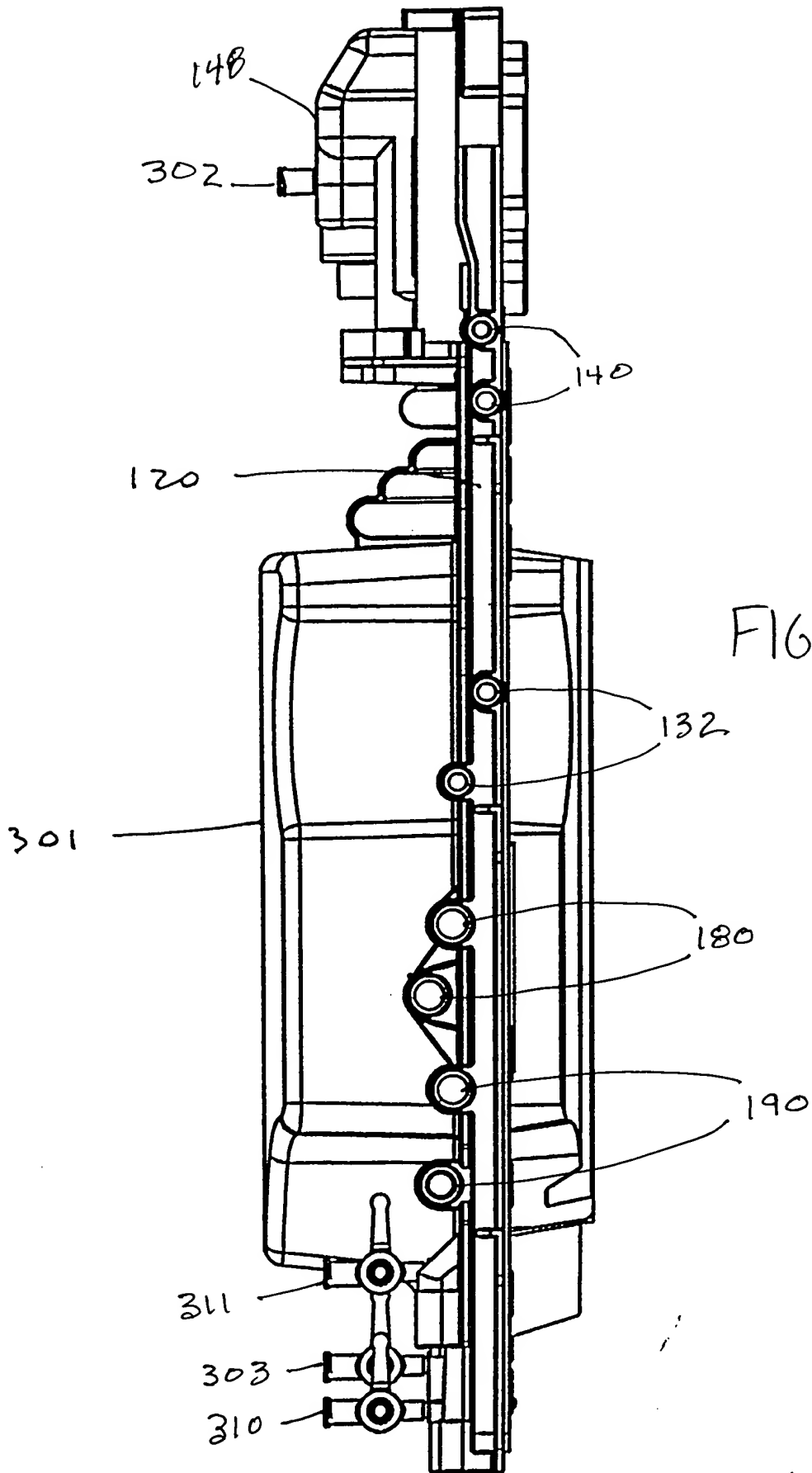


F16.13

FIG. 14

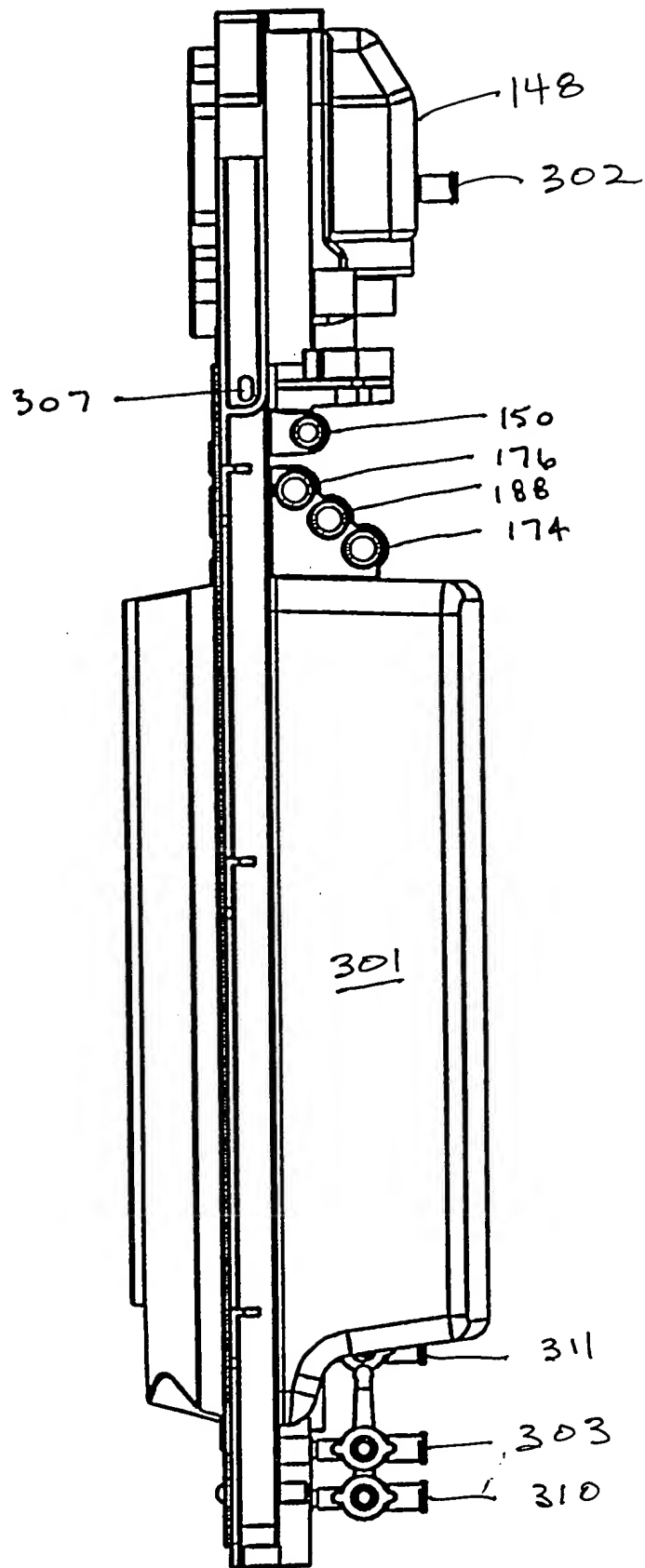


09963793.092601
T09260" E62E9660



09963793.092601
109260" E6ZE9660

FIG. 16



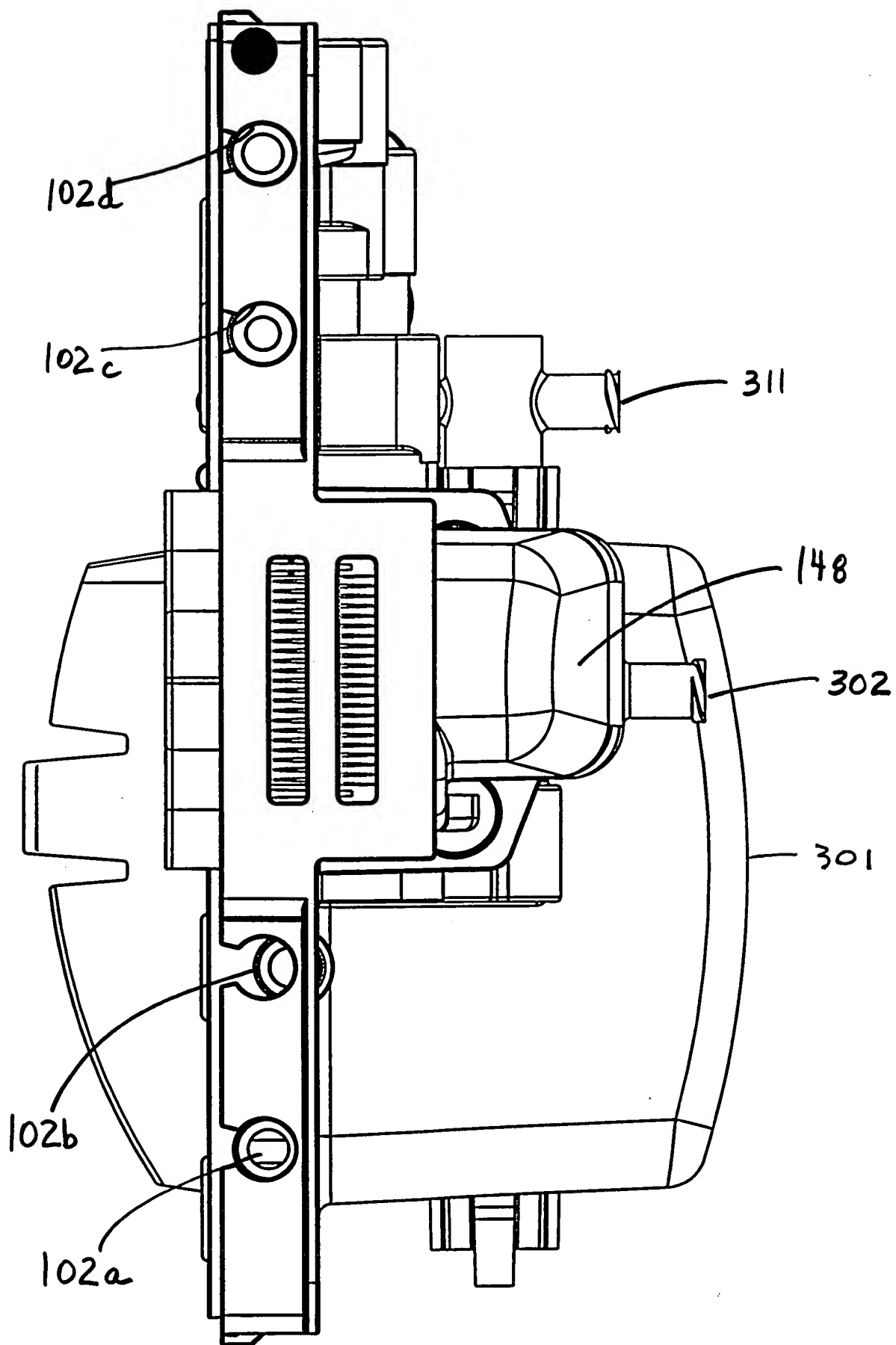


FIG. 17

0963791092604
T0926092604

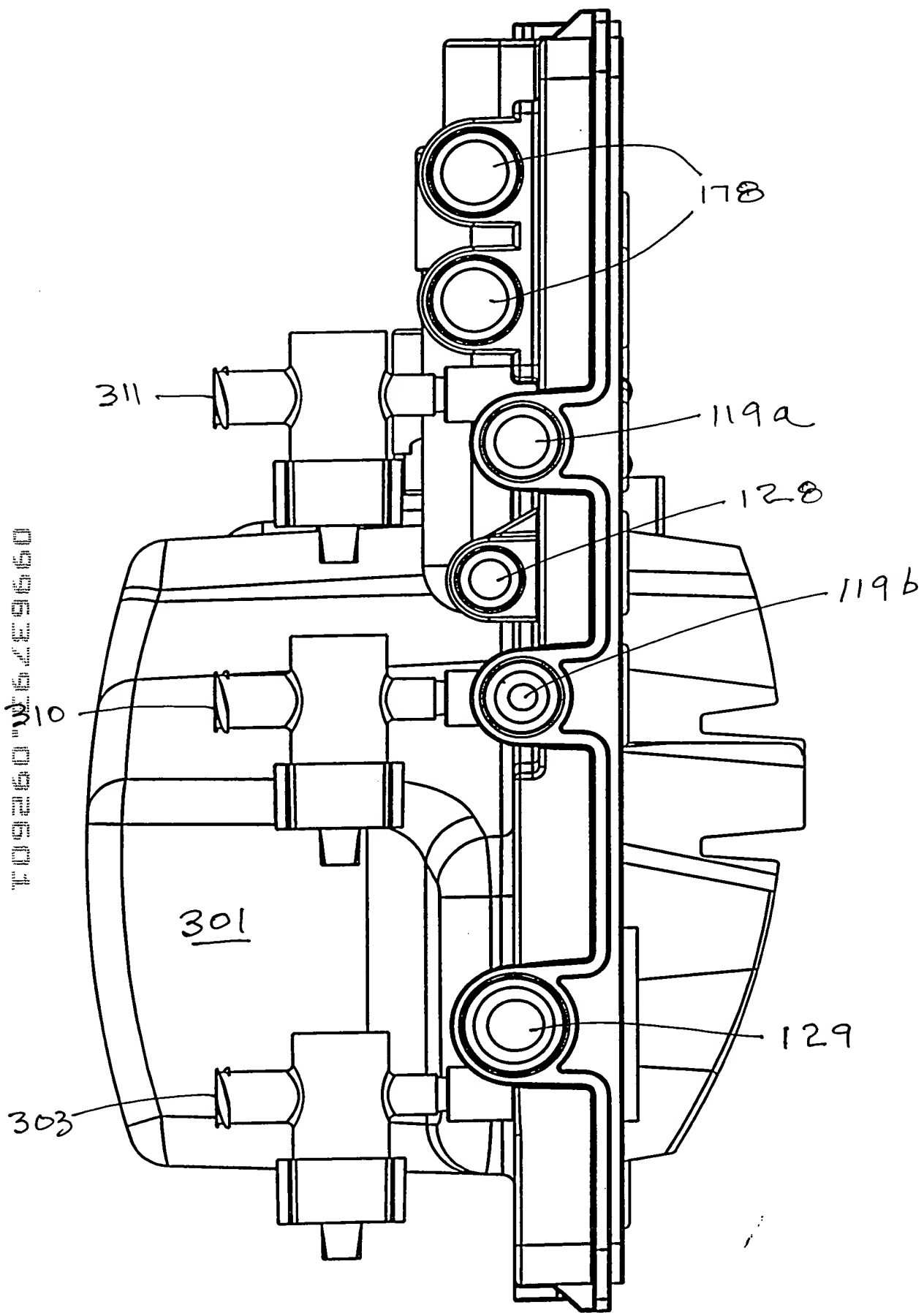
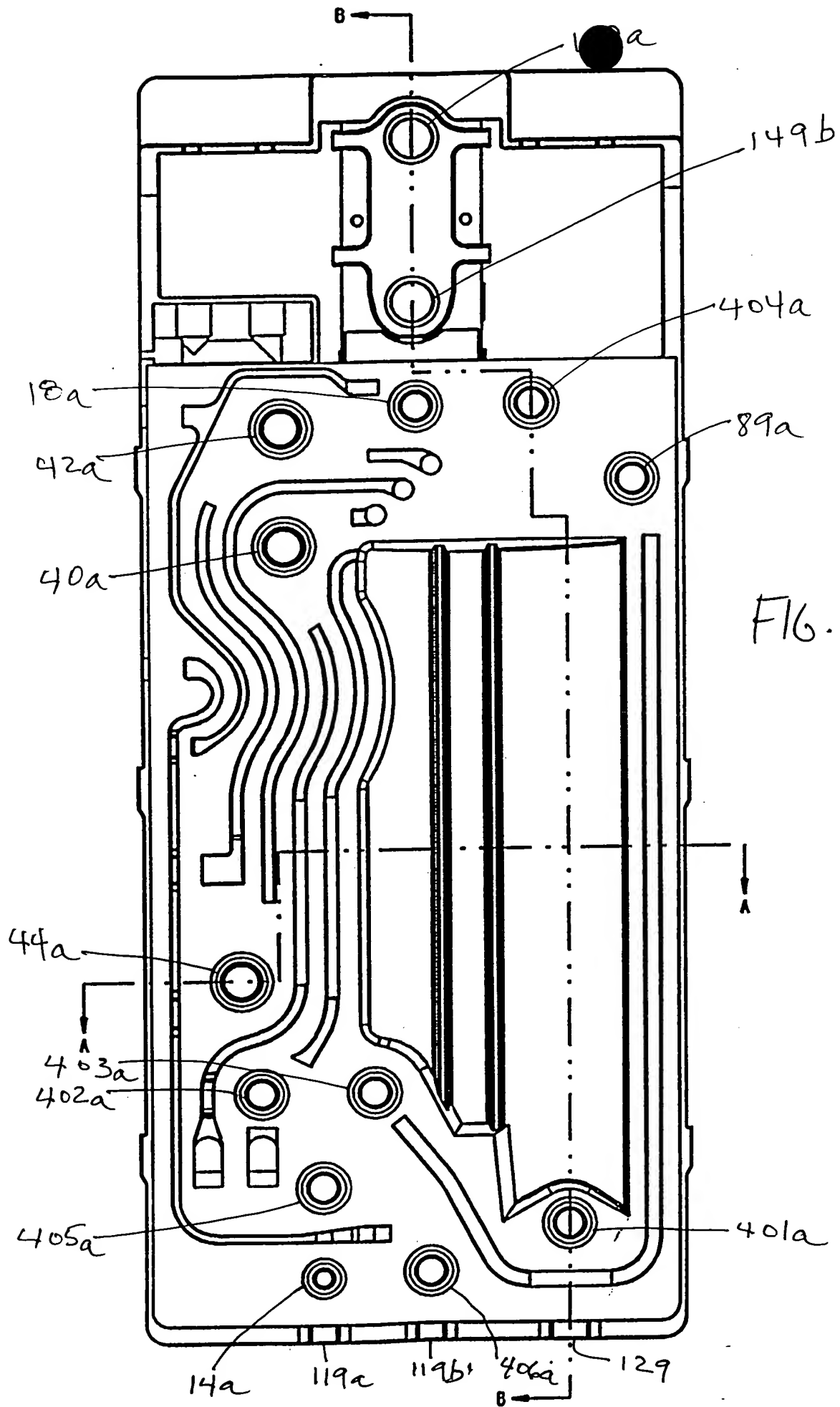
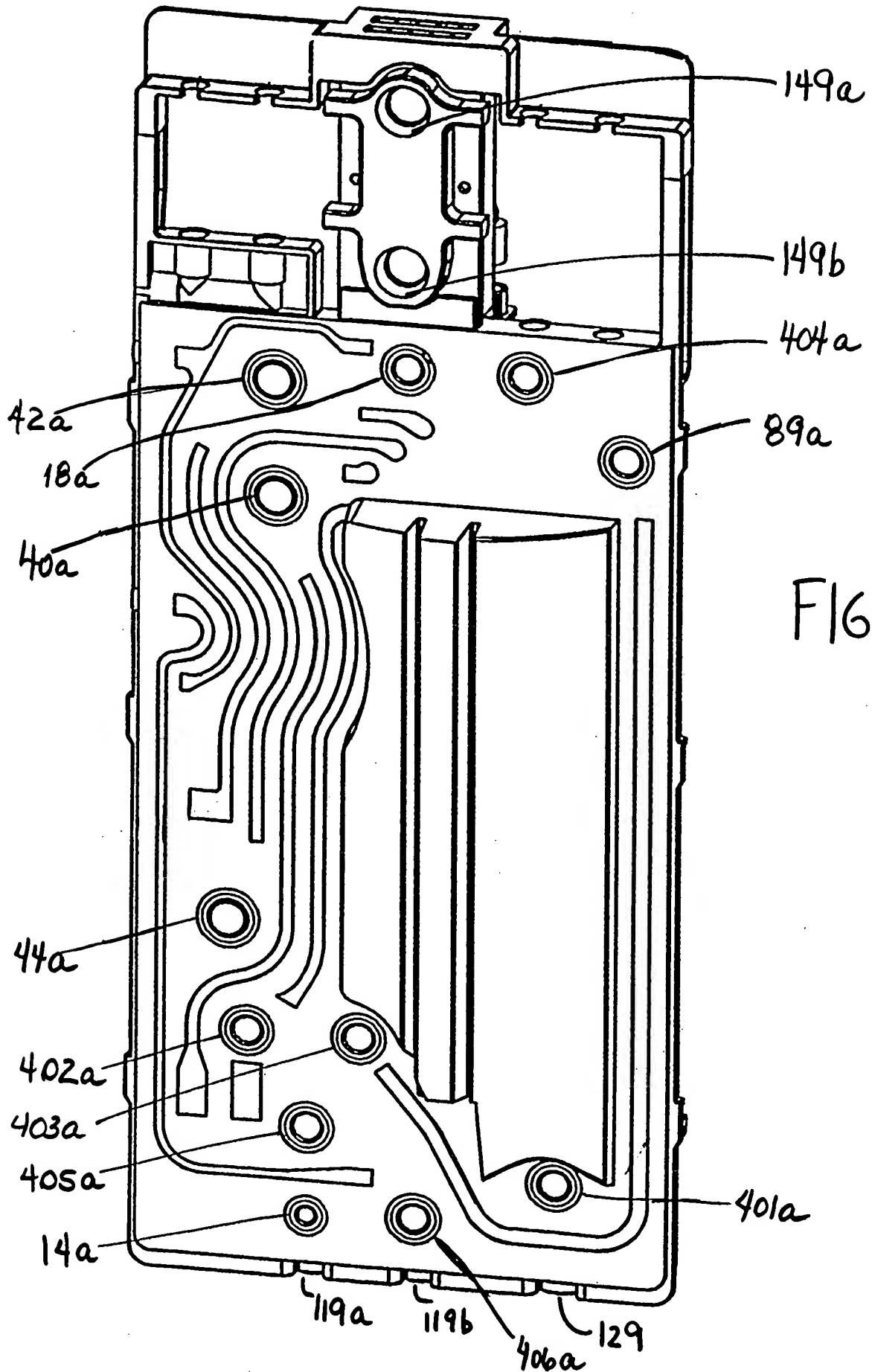


FIG. 18

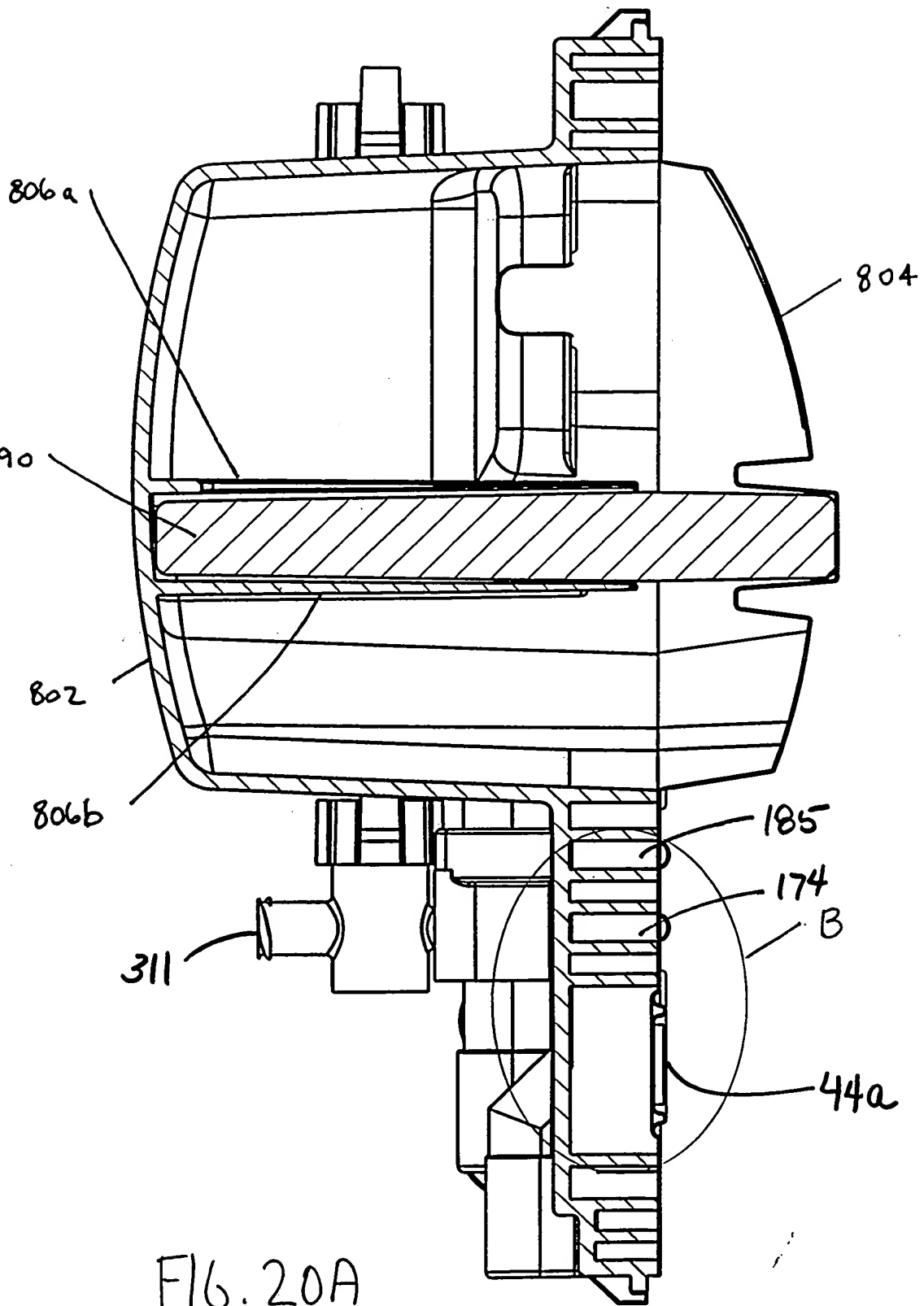
09963793-092601
109260-3629660





F16.19B

FIG. 20A



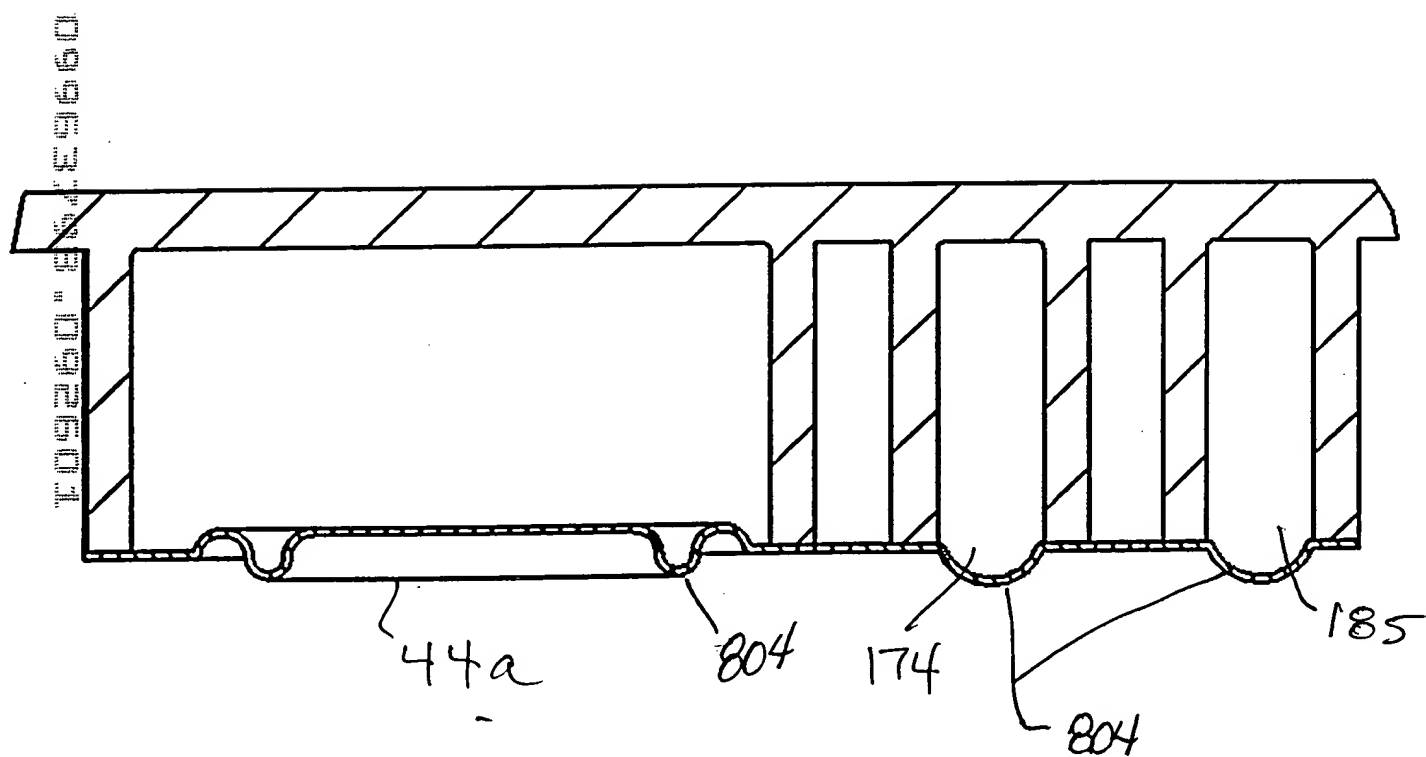


FIG. 20B

FIG. 21

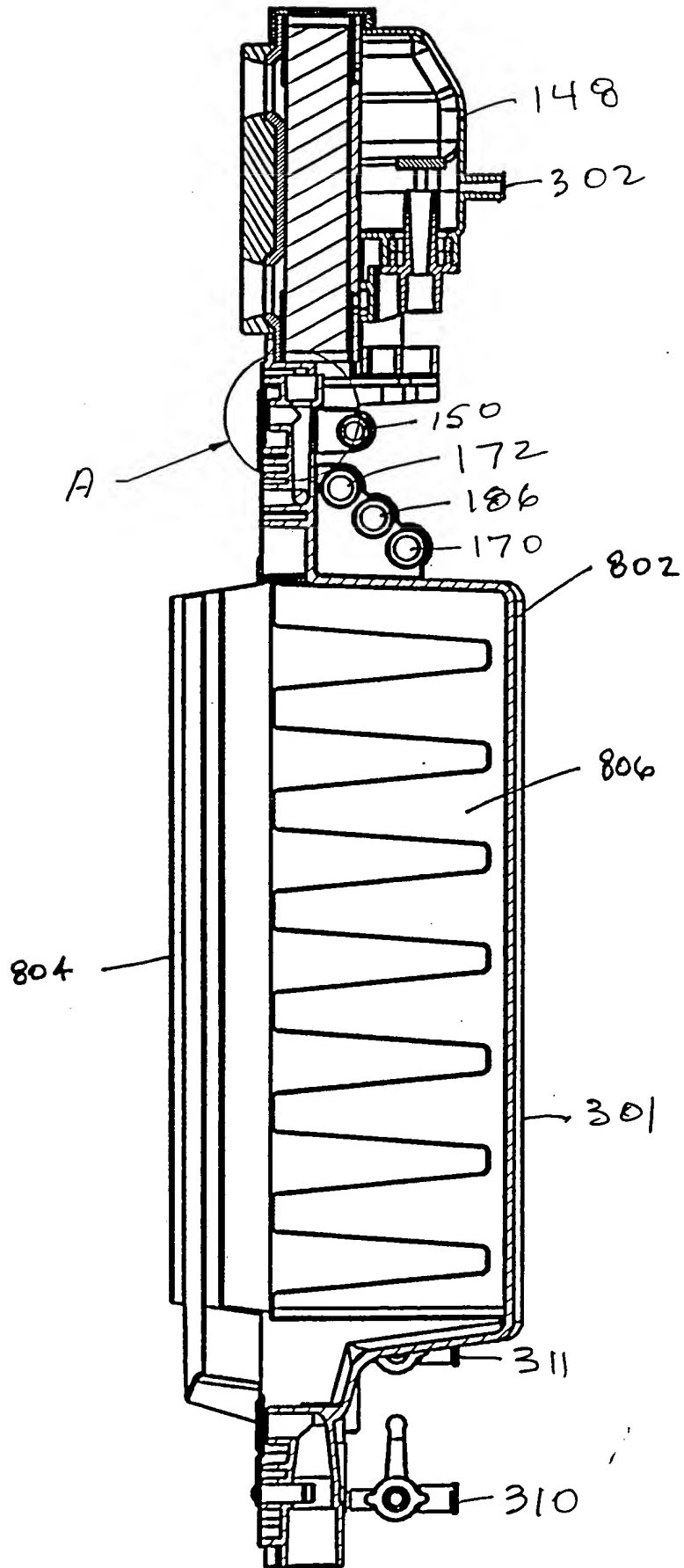


FIG. 21

09963793.092601

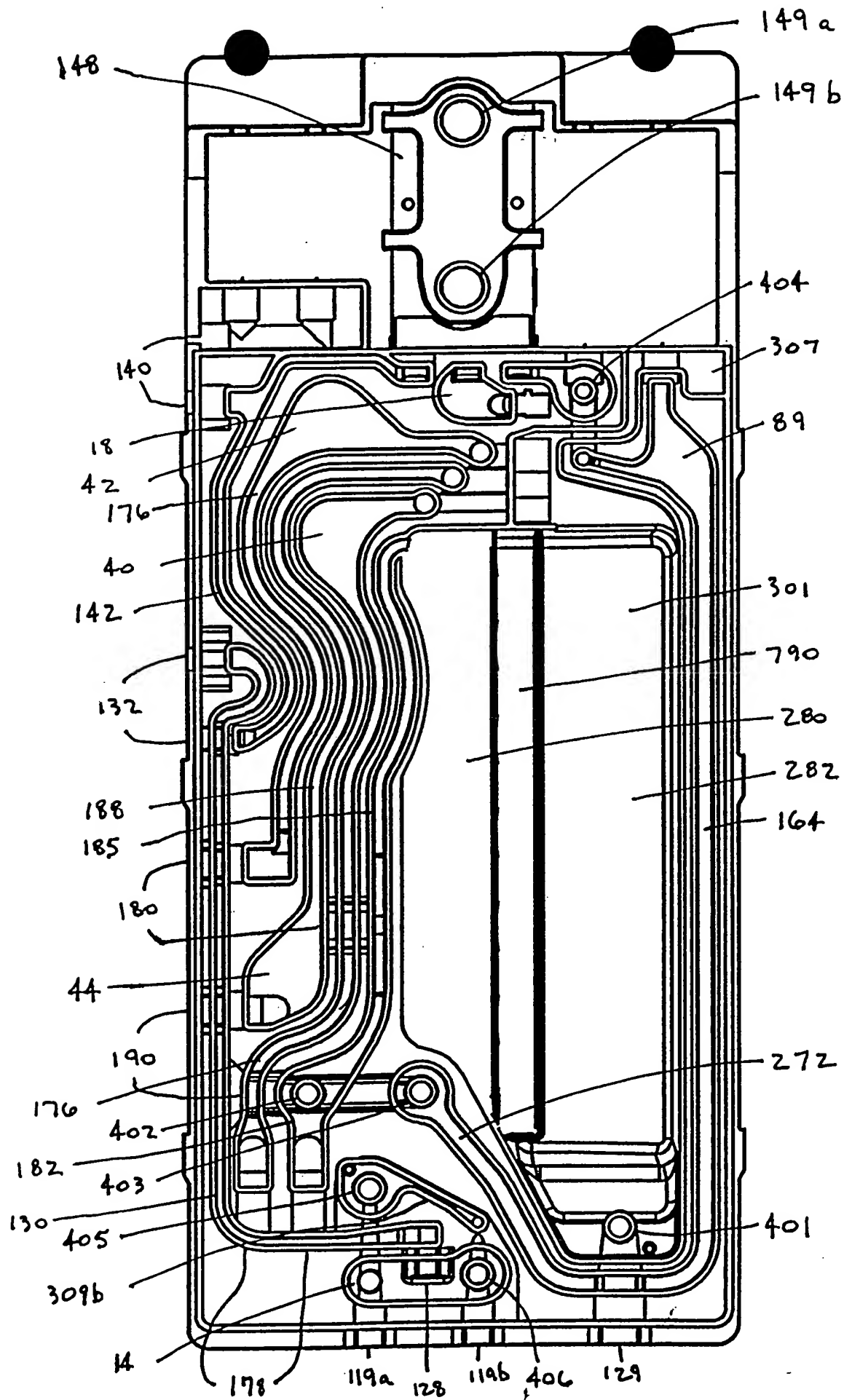


FIG 22

FIG. 23A

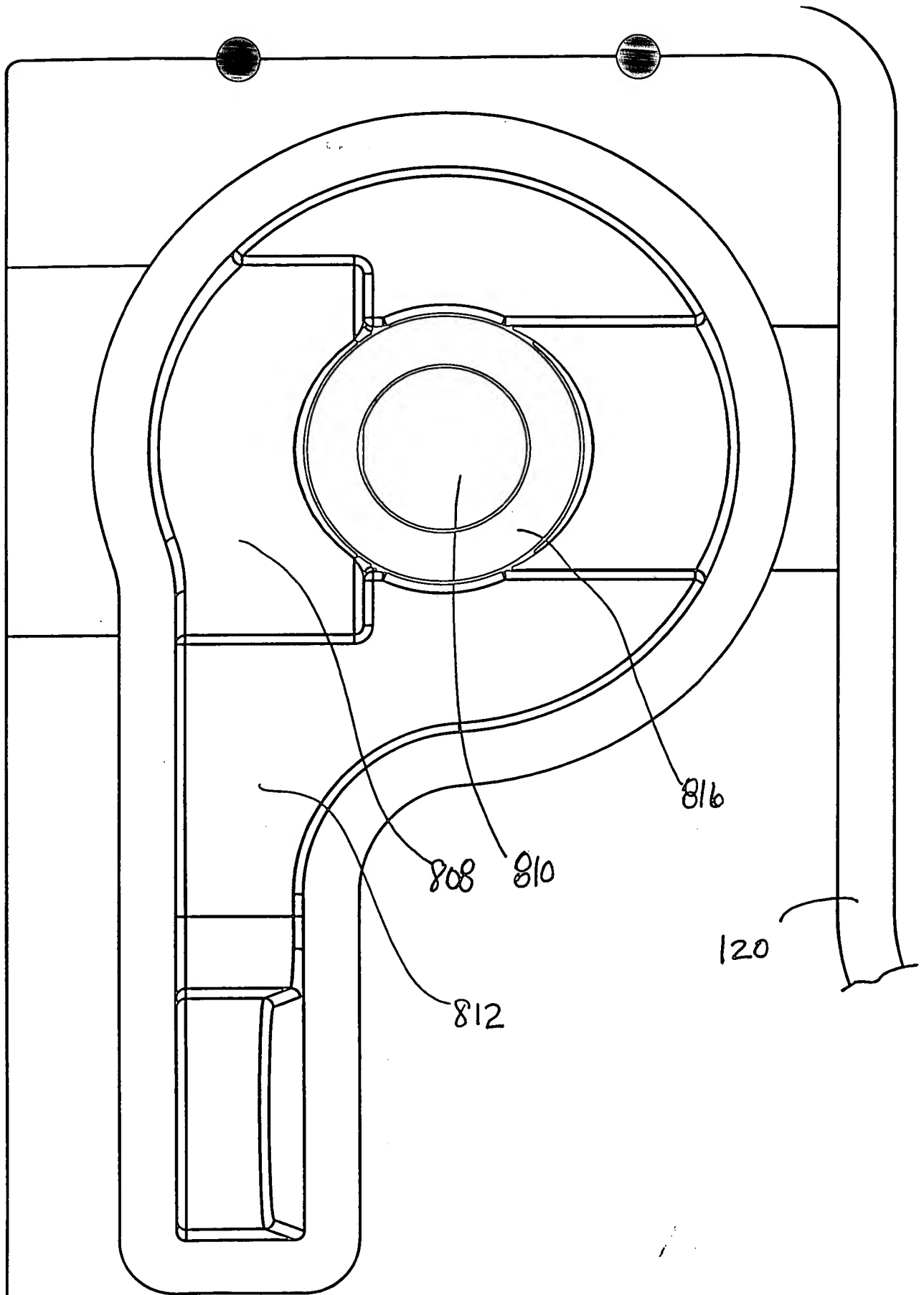


FIG. 23A

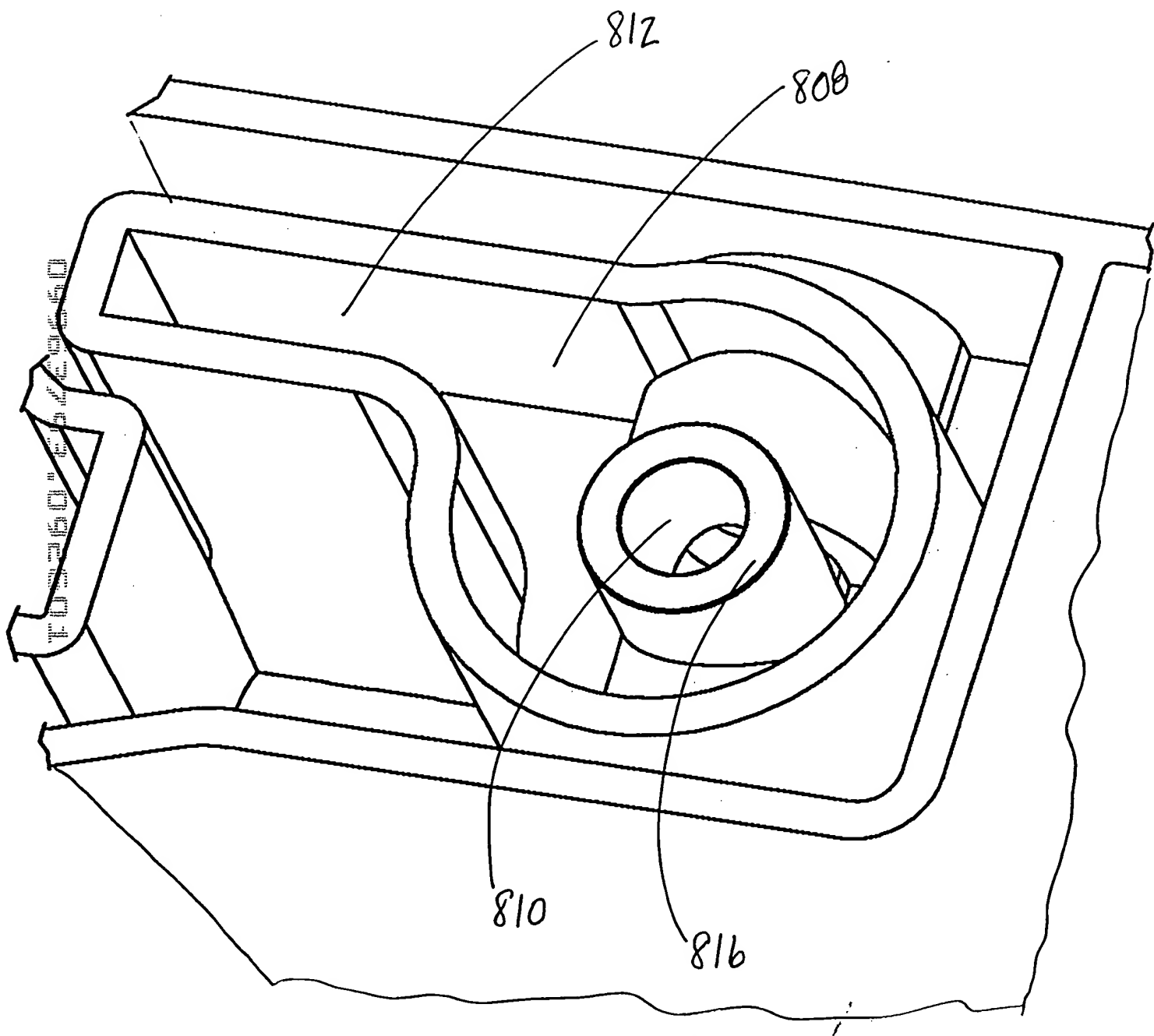


FIG. 23B

0963793.092604

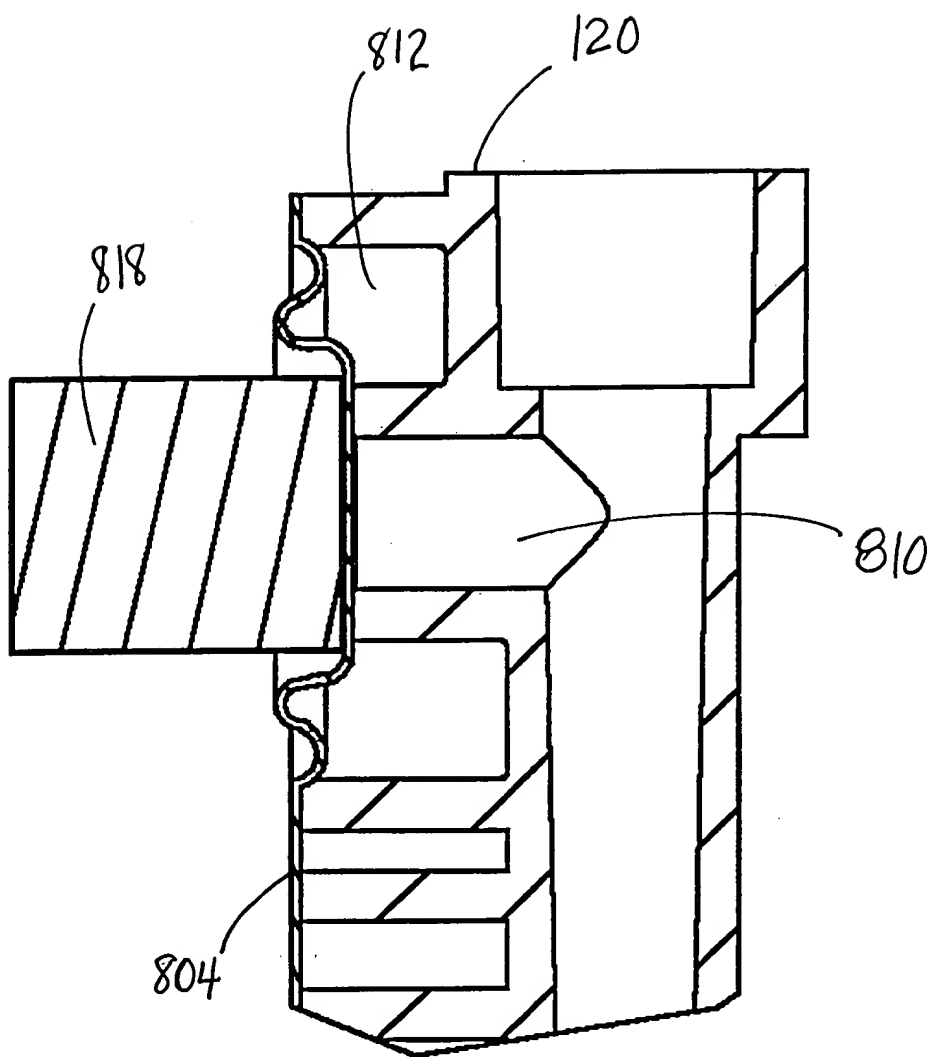


FIG 24 A

FIG. 24B

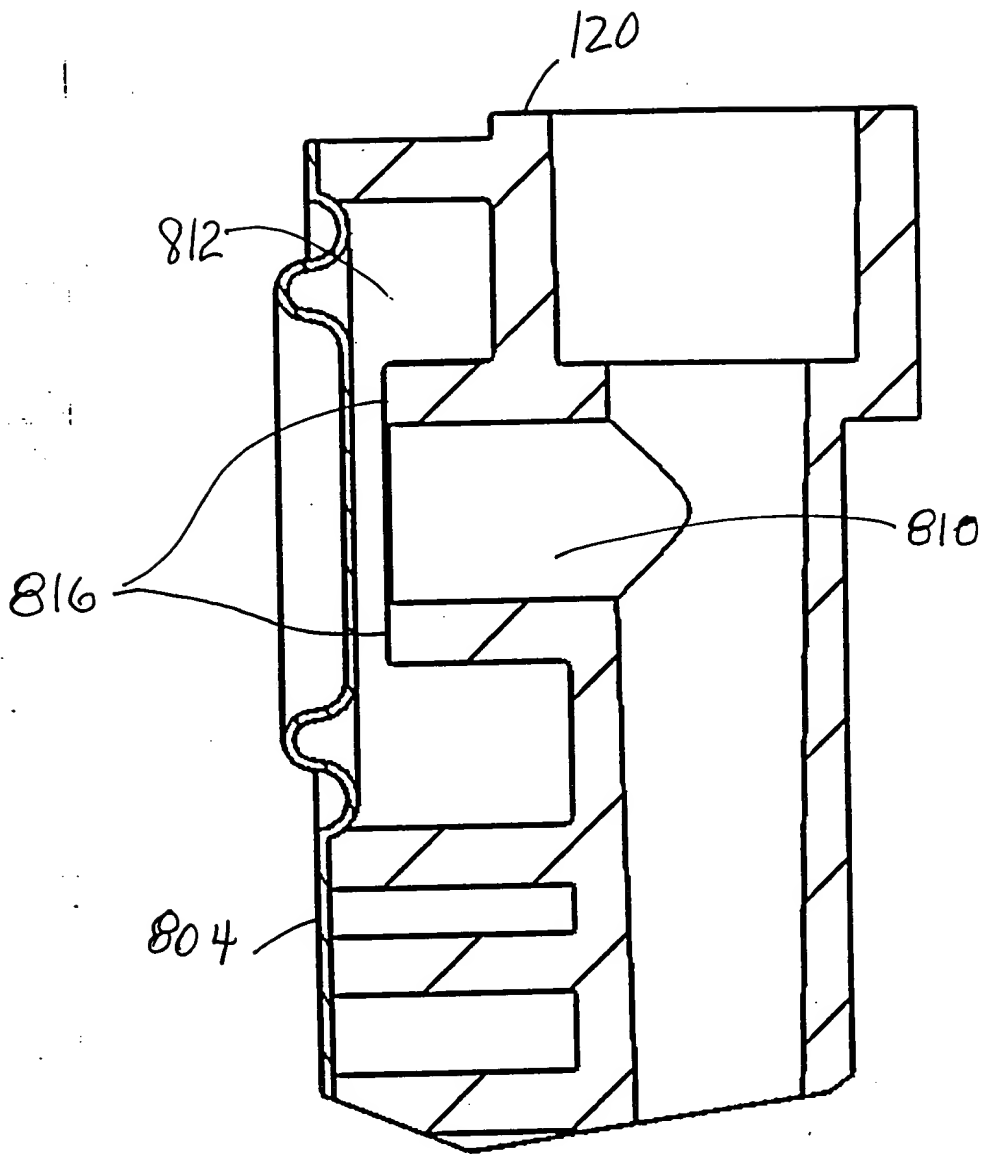


FIG. 24B

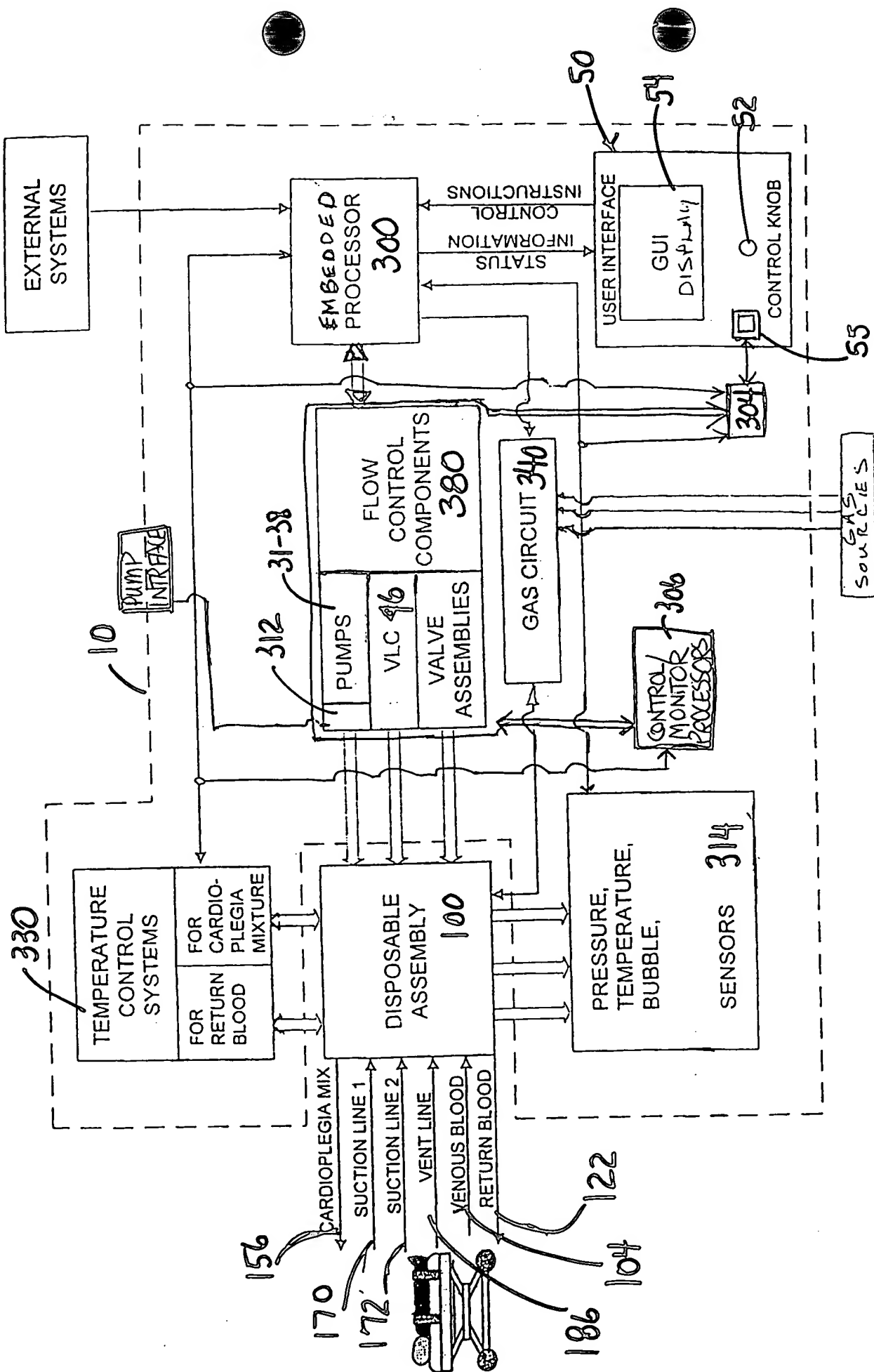


FIG. 25

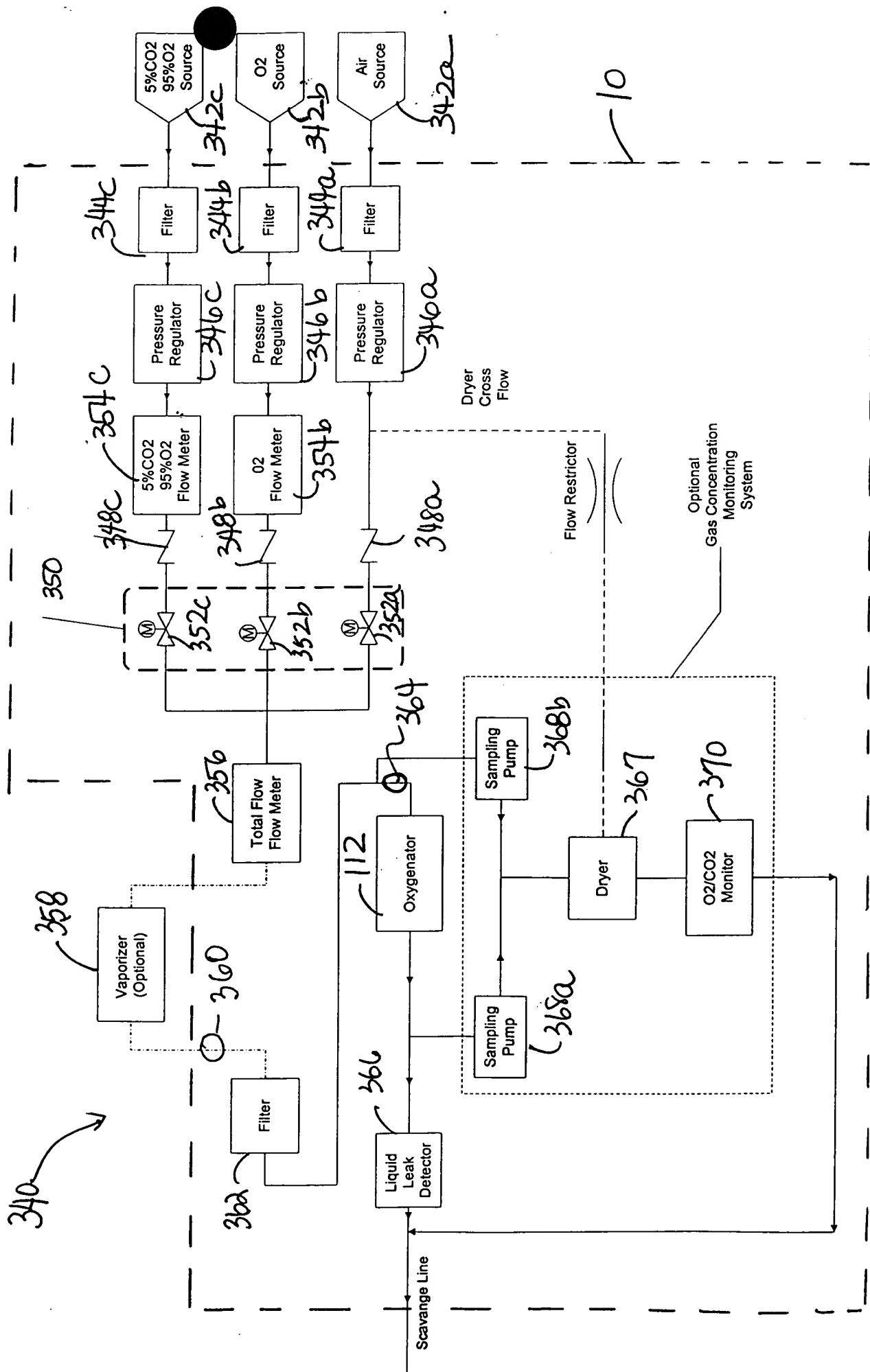


FIG. 260

FIG. 27

FIG. 27

FIG. 28A

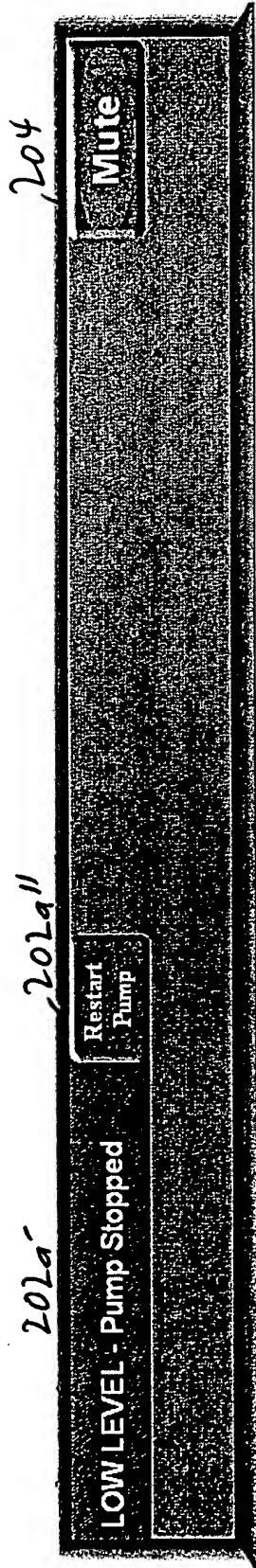


FIG. 28A



FIG. 28B

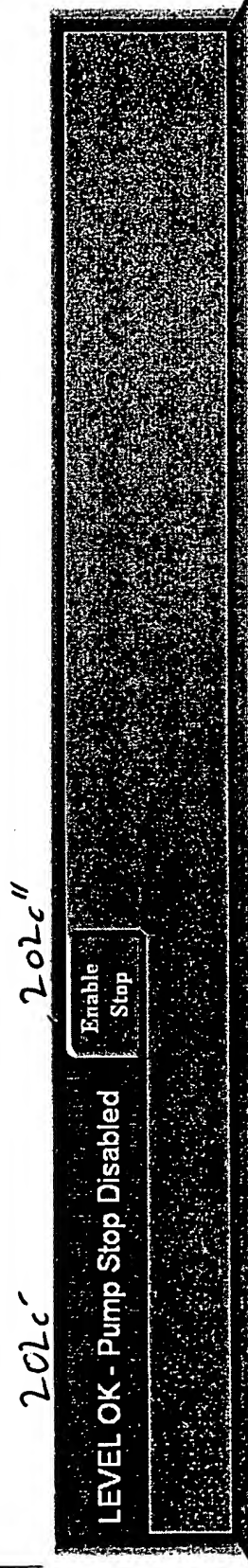
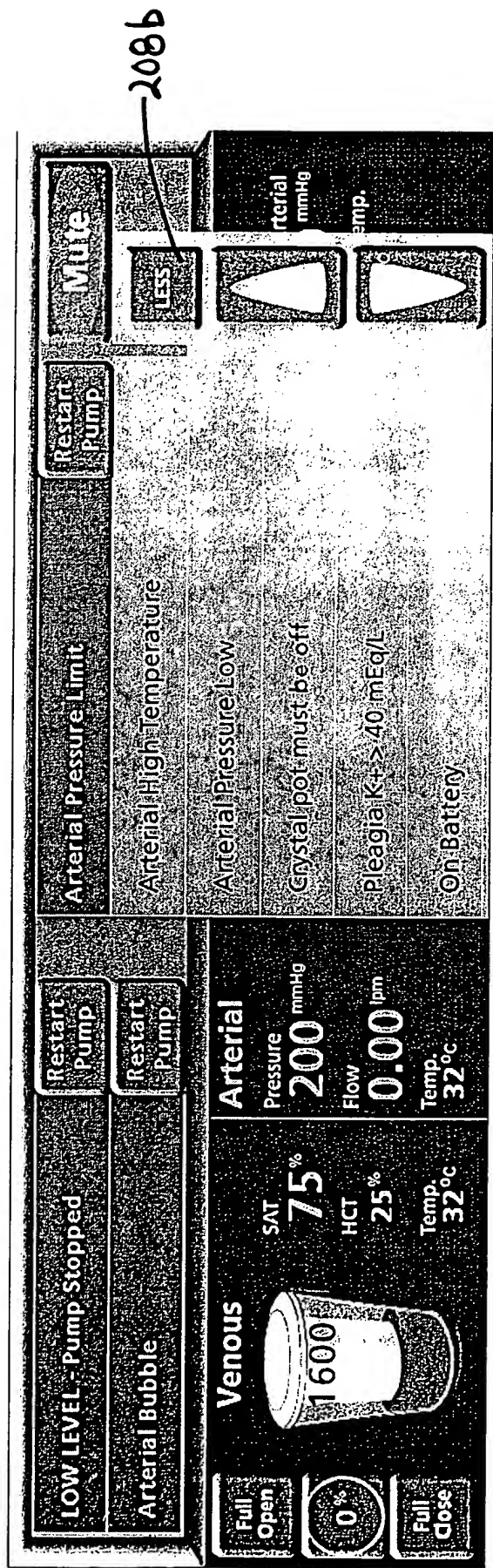
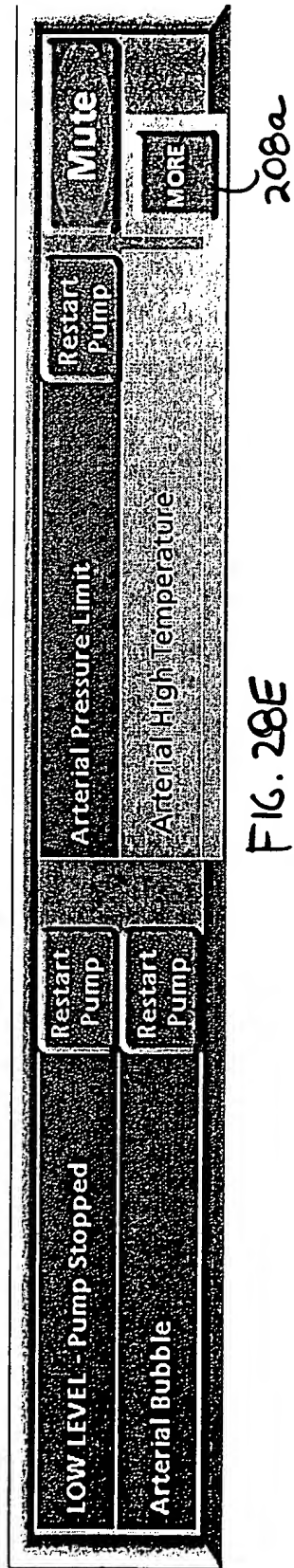
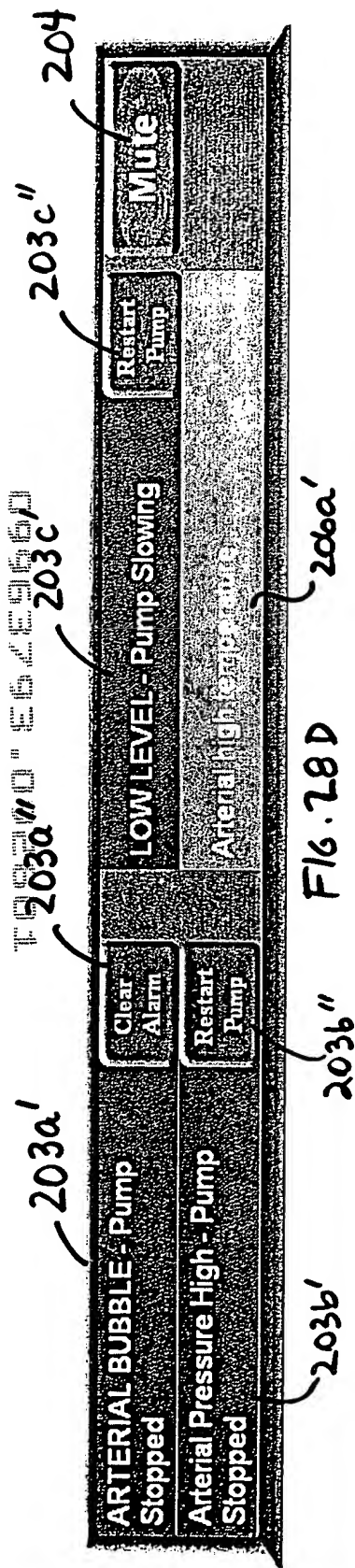






FIG. 28C



FD-3250 "E" 6-2-65

222		224		226		228		230	
Venous		Arterial		Cardioplegia		Blender		Other	
 222a	SAT 85%	Line Pressure 151 mmHg	Coronary Sinus 0 mmHg	Flow 0.276 lpm	Flow 3.2 lpm	Patient Arterial 110 mmHg			
 222b	HCT 26%	Flow 3.81 lpm	Bolus 360 ml	Temp. 20.9°C	FiO ₂ 50%	Patient Temp. 32.0°C			
 222c	Temp. 21.3°C		Ischemic Time 00:00		FiCO ₂ 0%	FeCO ₂ 1%			
								8:55	

F16.29

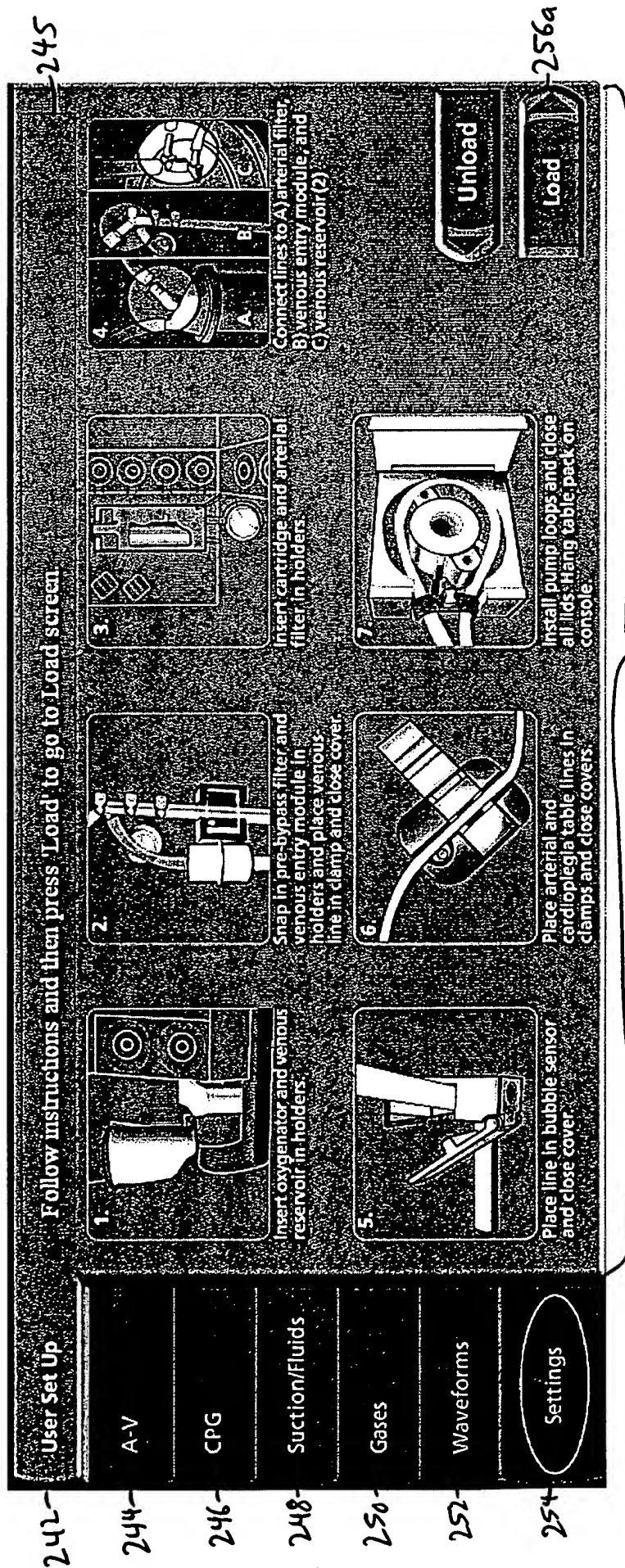
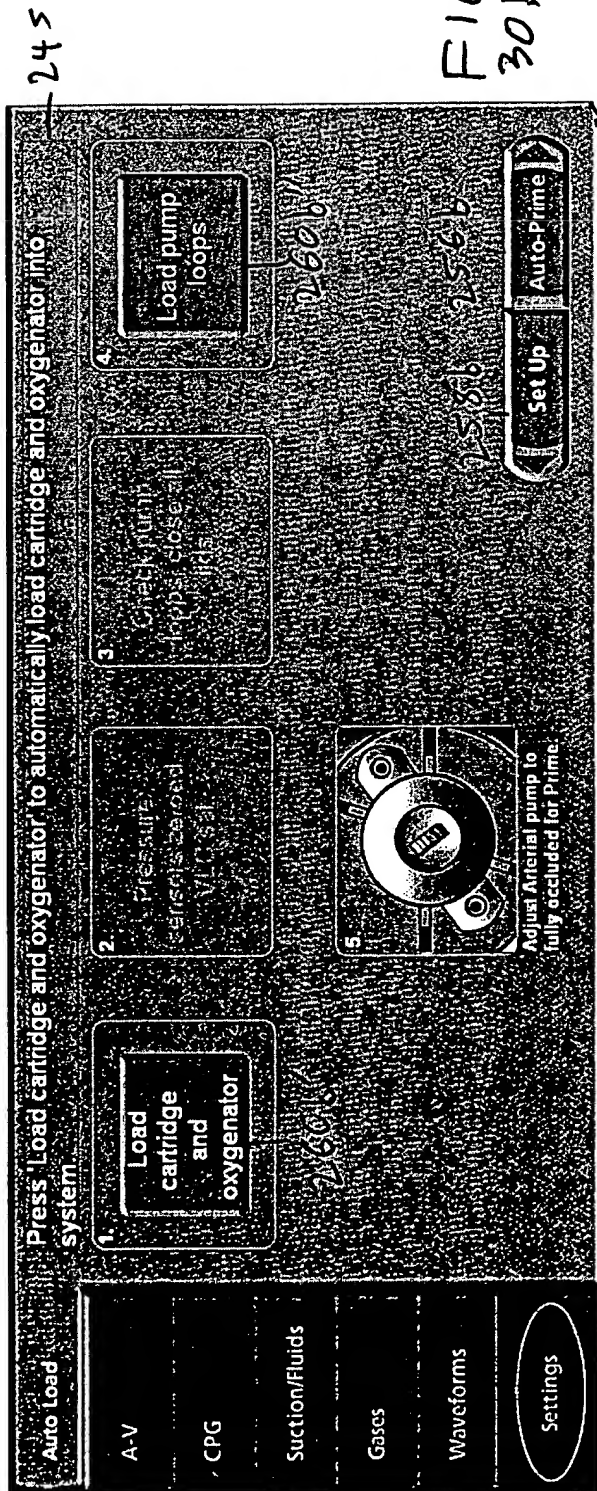
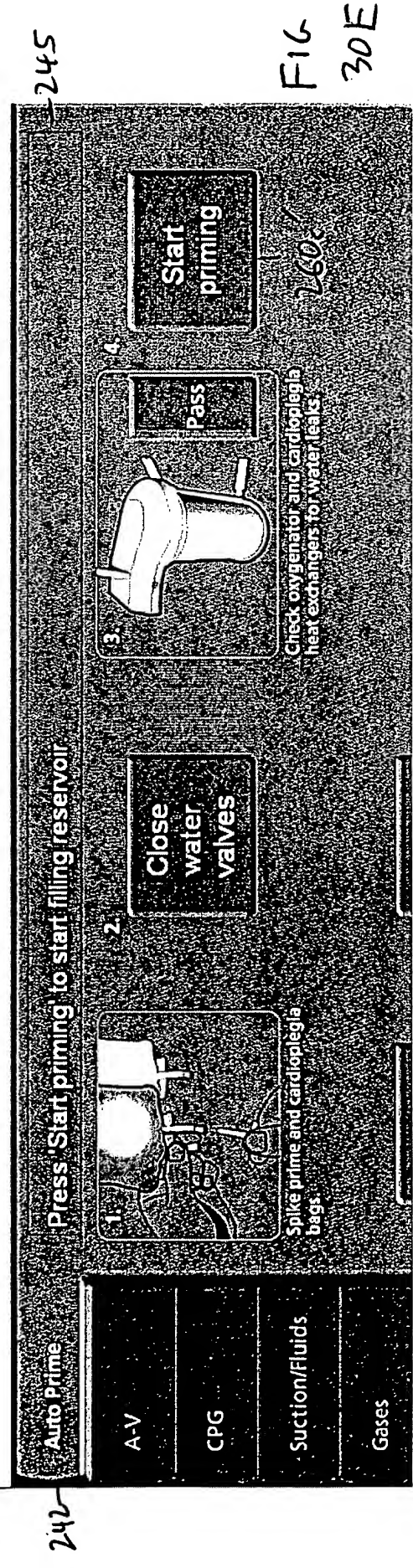
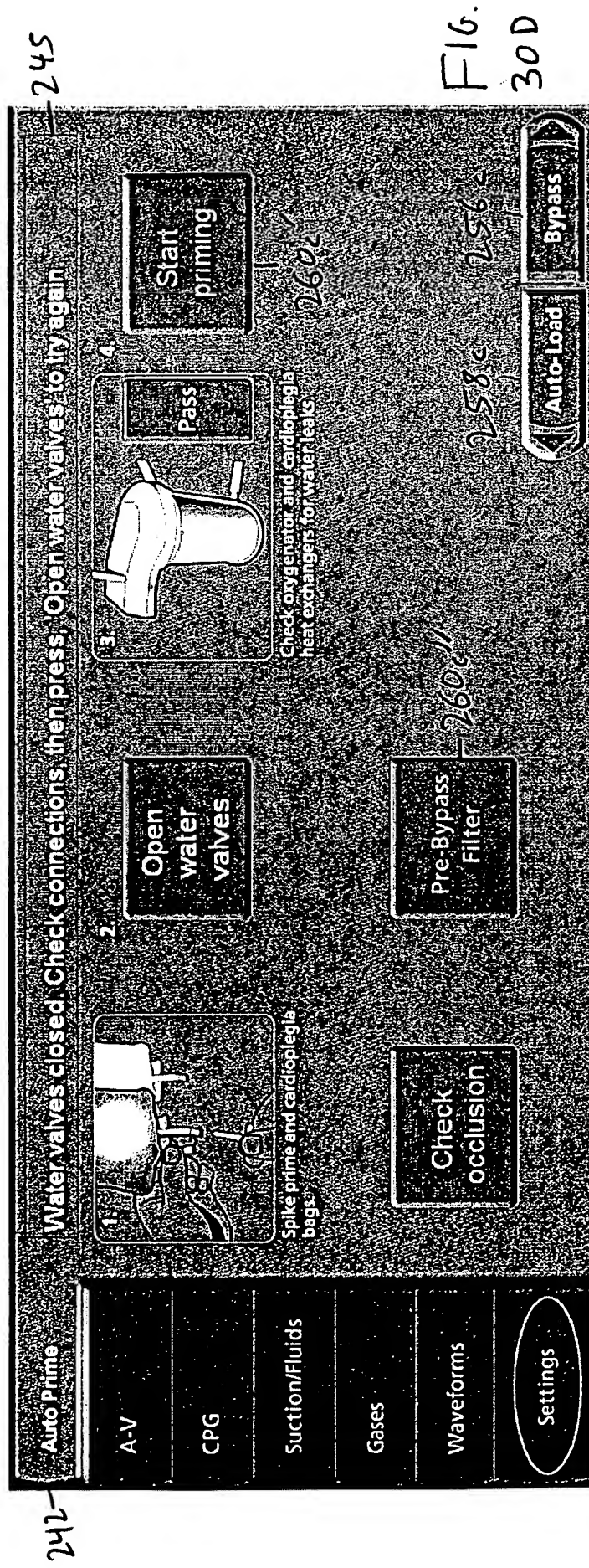
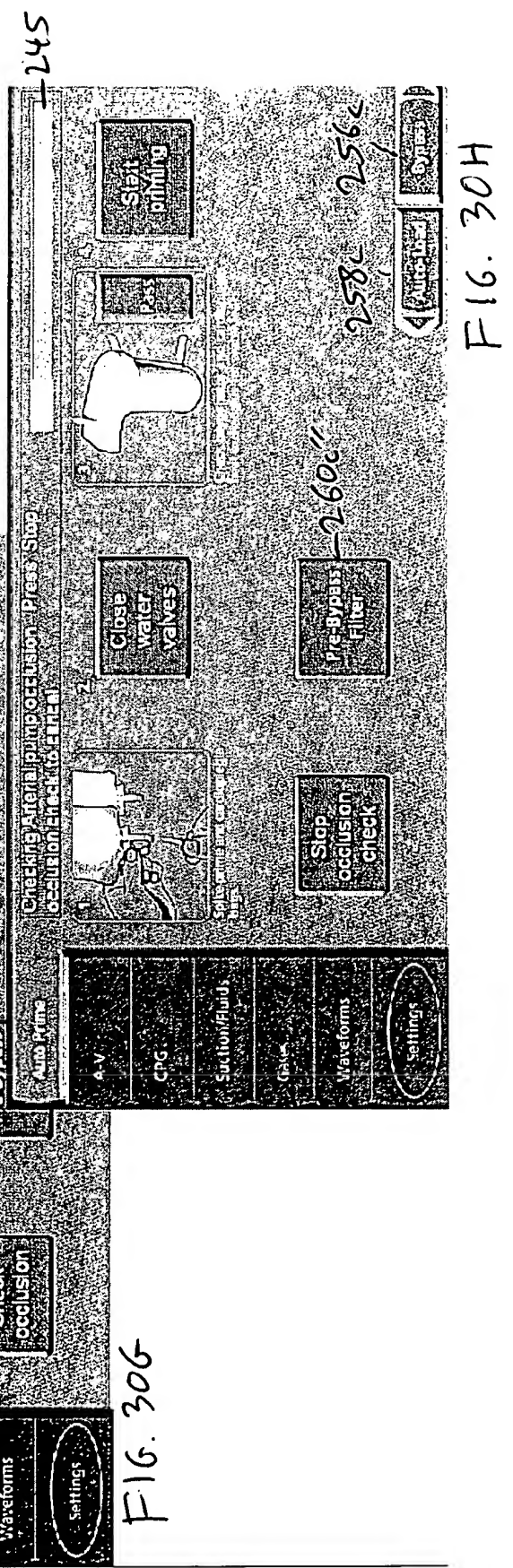
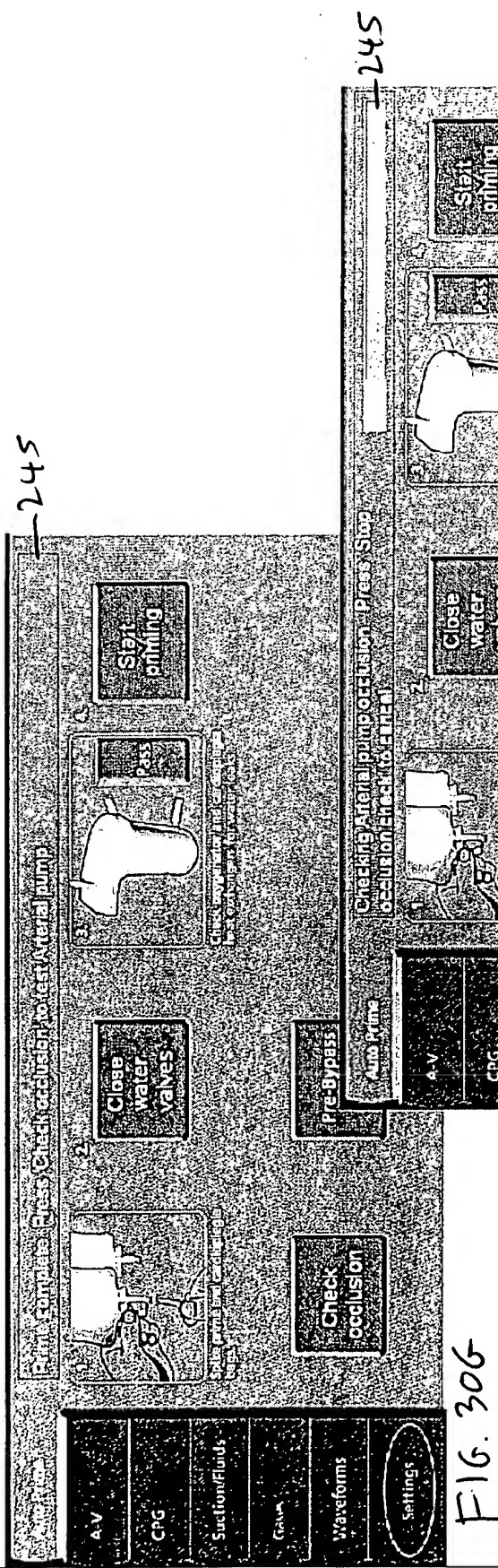
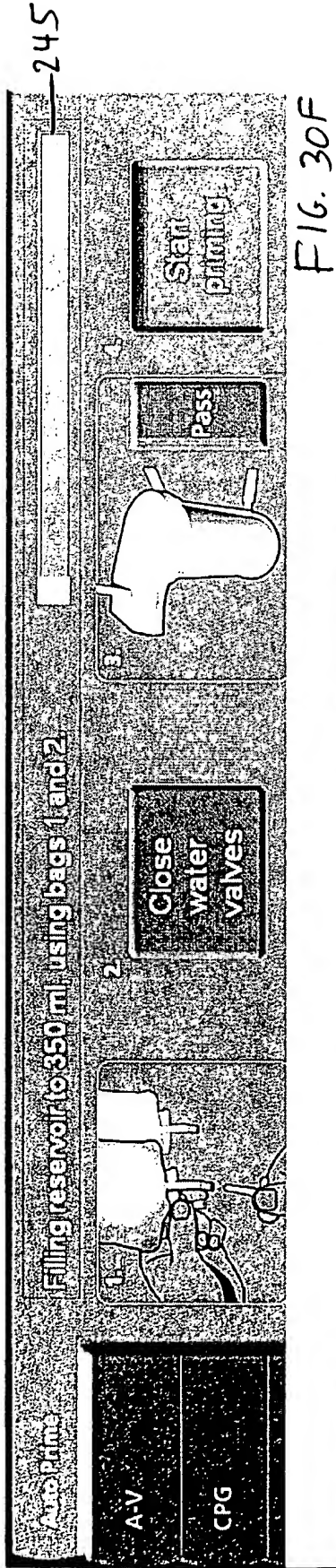
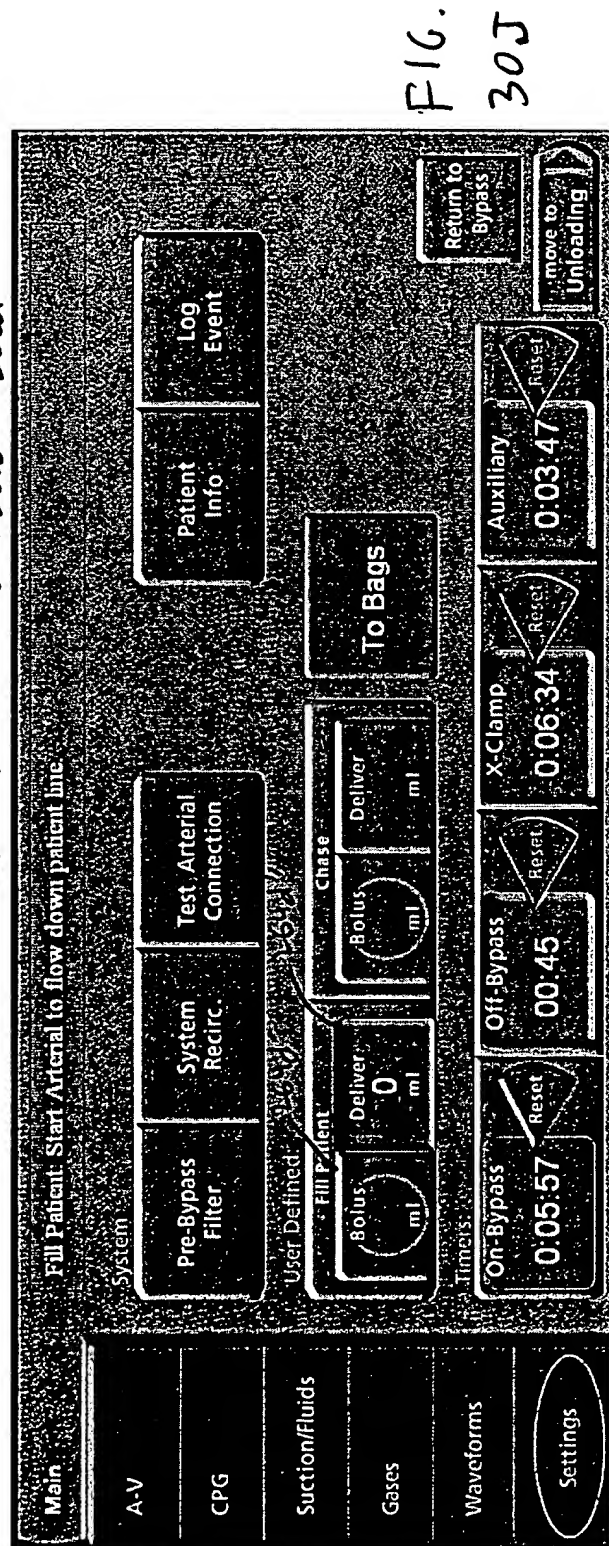
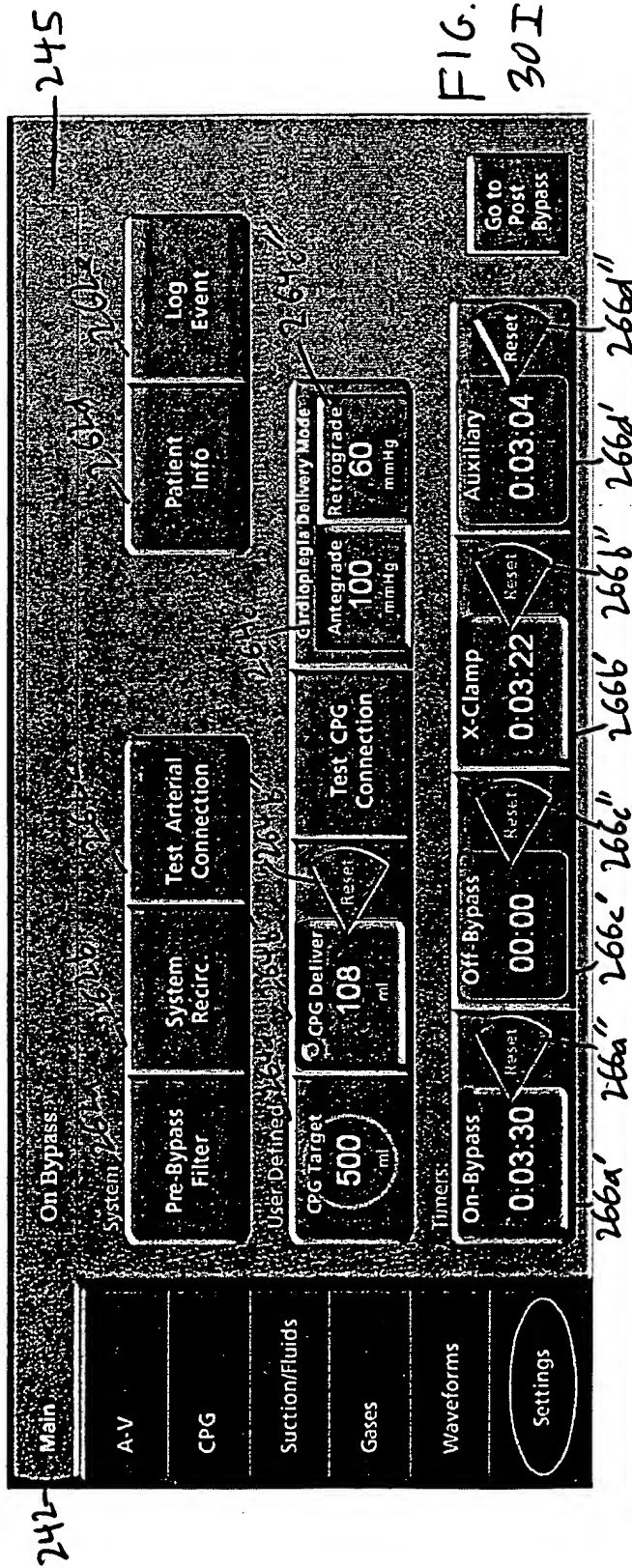


FIG. 30A









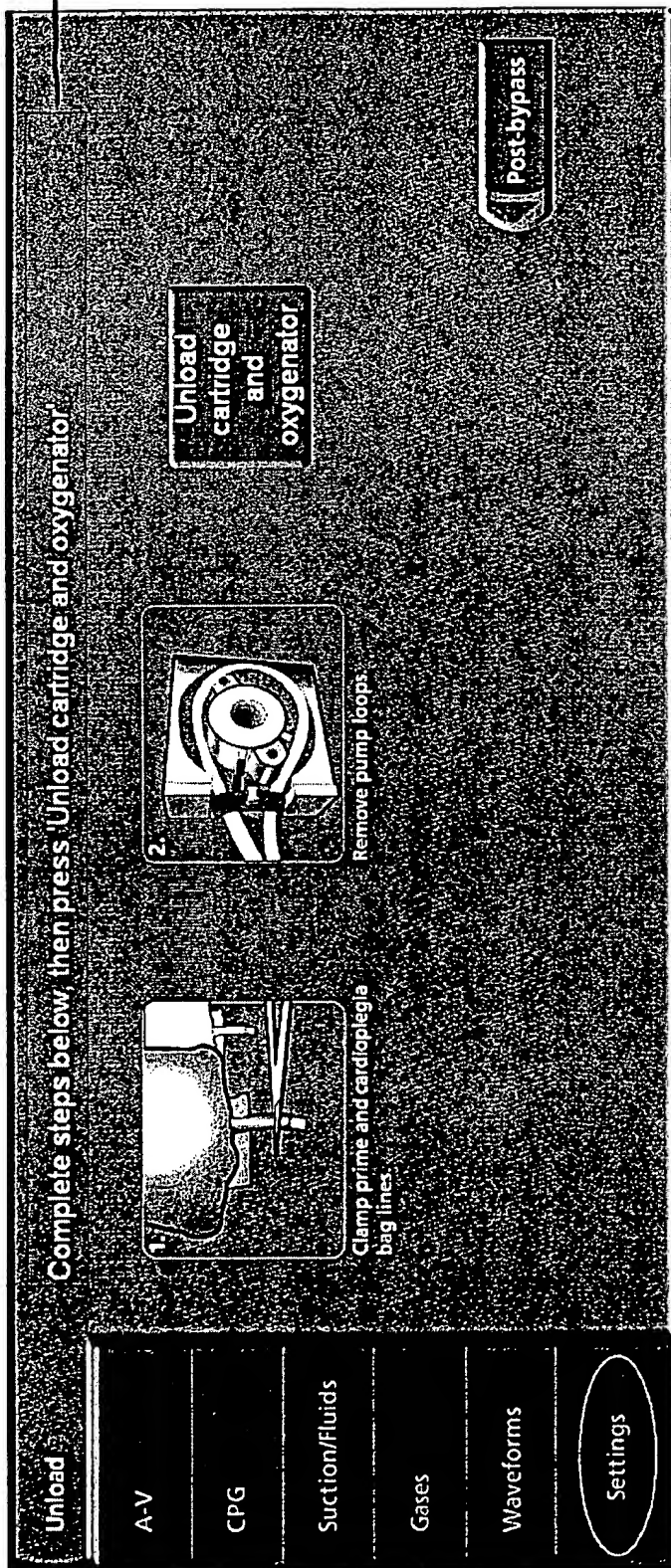


FIG. 30k

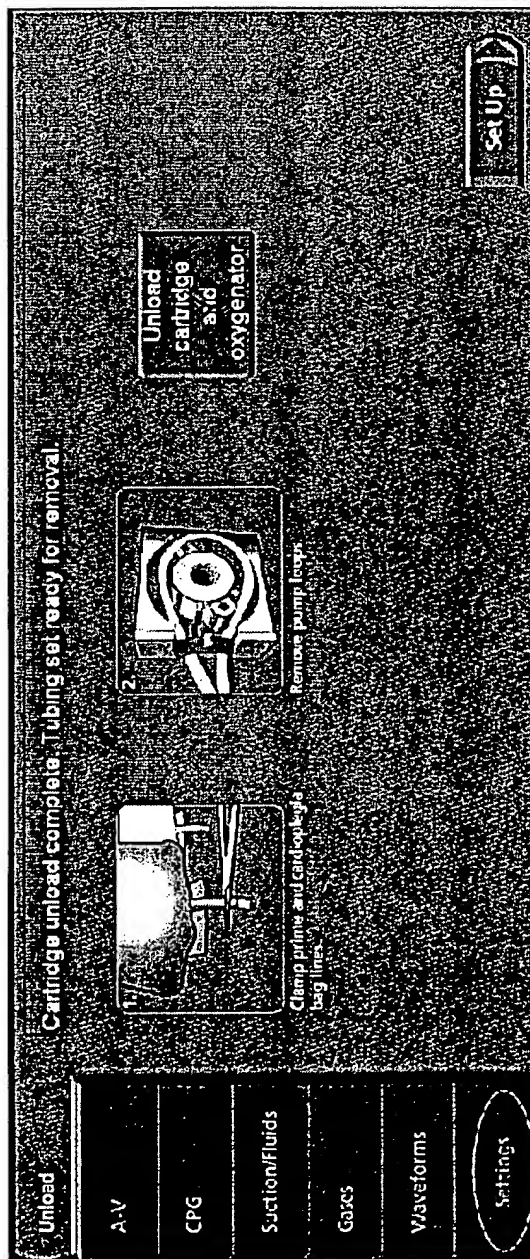


FIG. 30L

T092043E6ZE9660

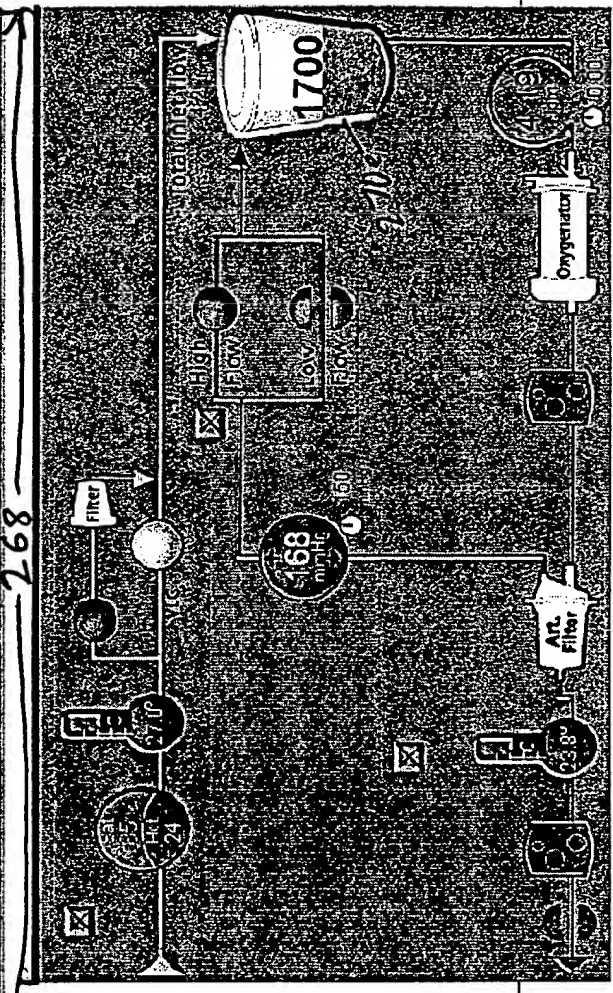
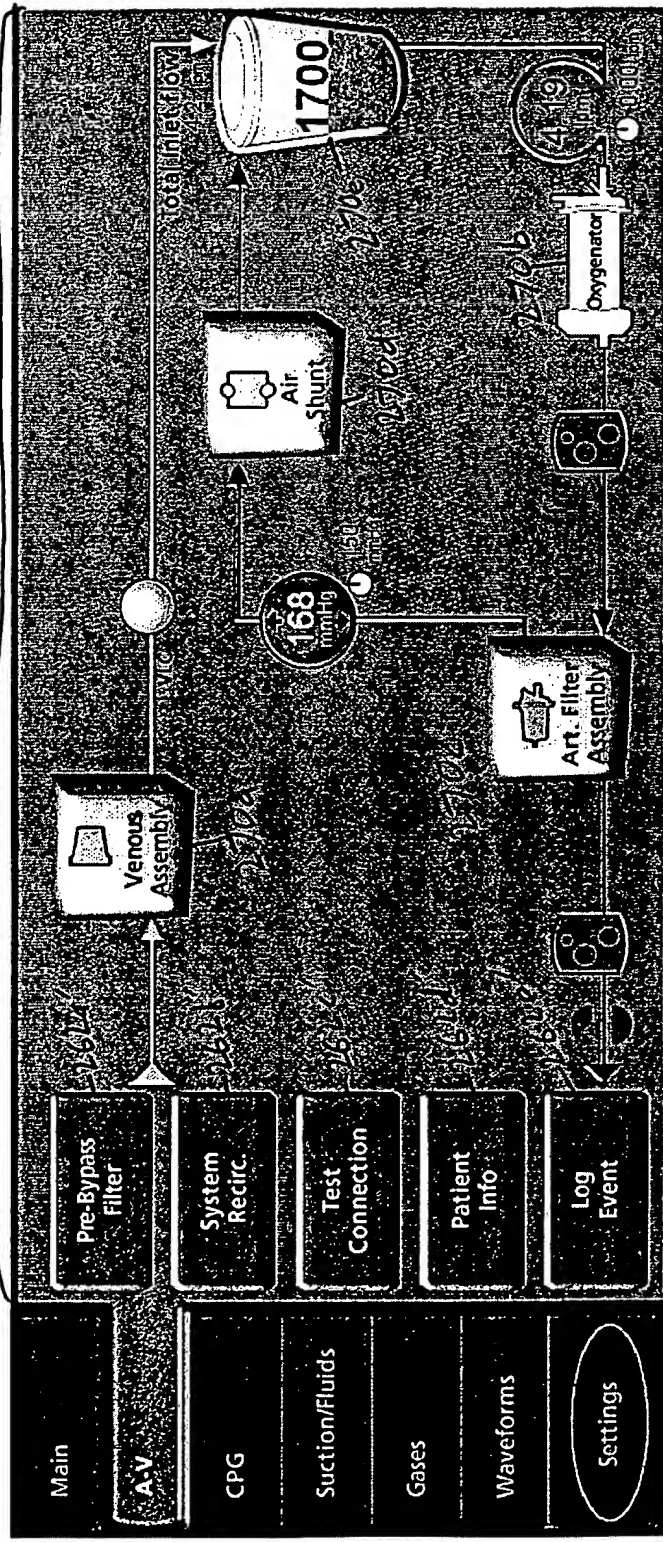


FIG. 31B

272

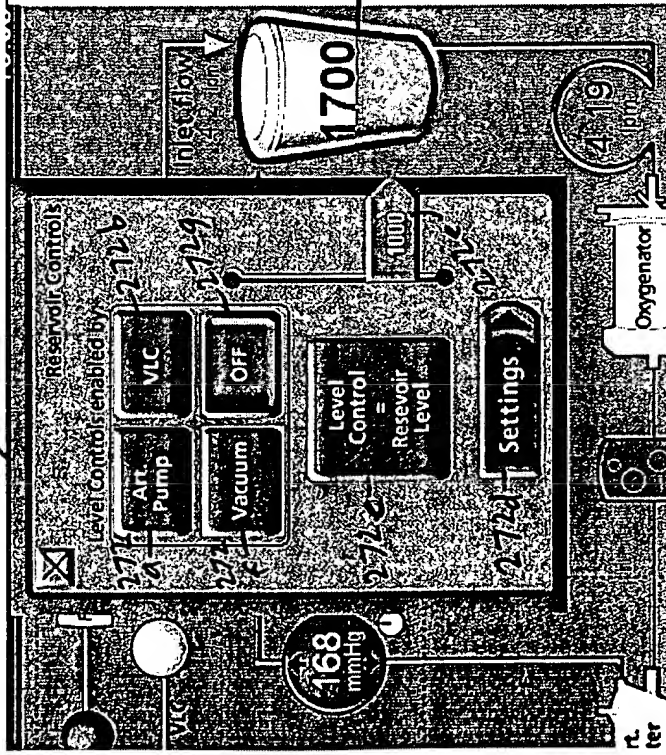


FIG. 31C

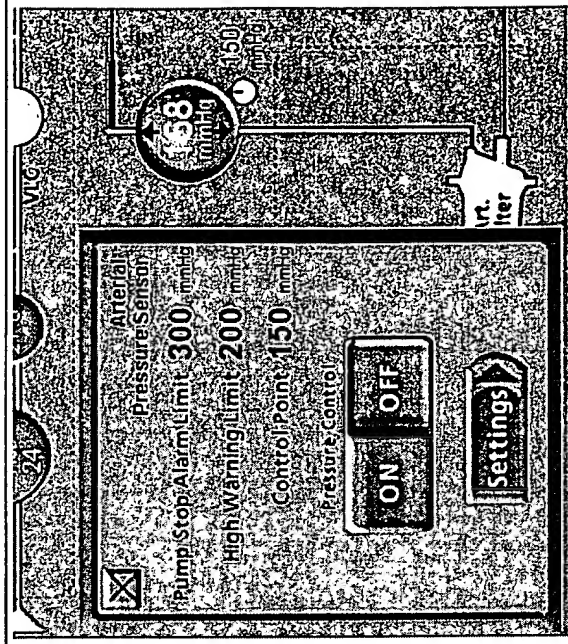


FIG. 31D

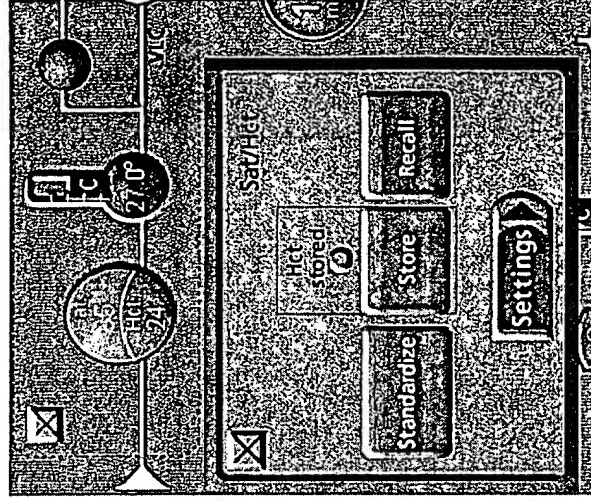


FIG. 31F

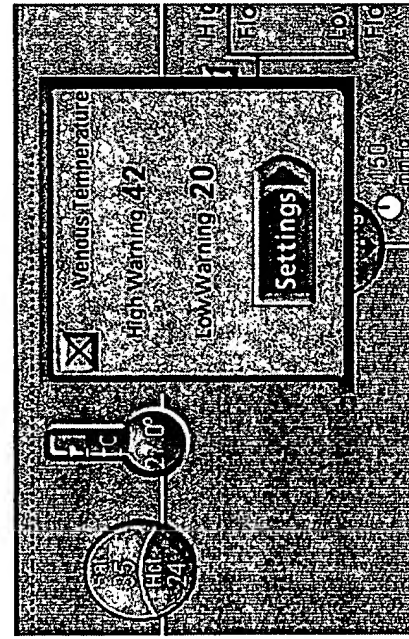
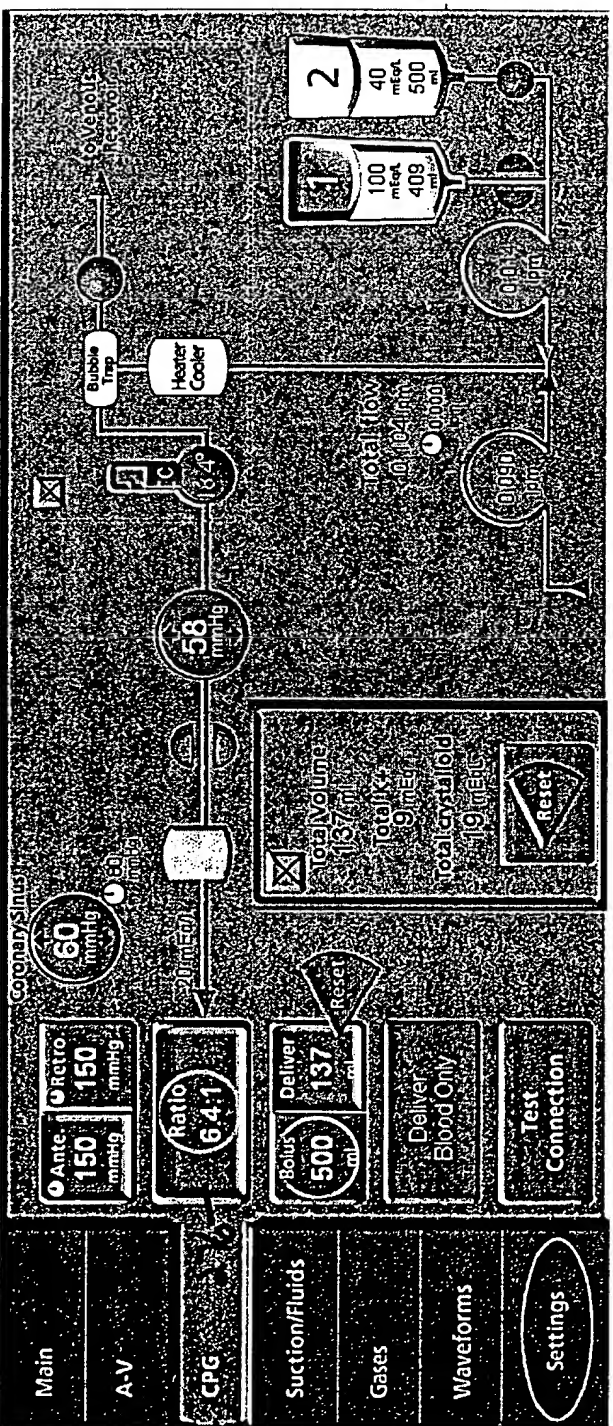
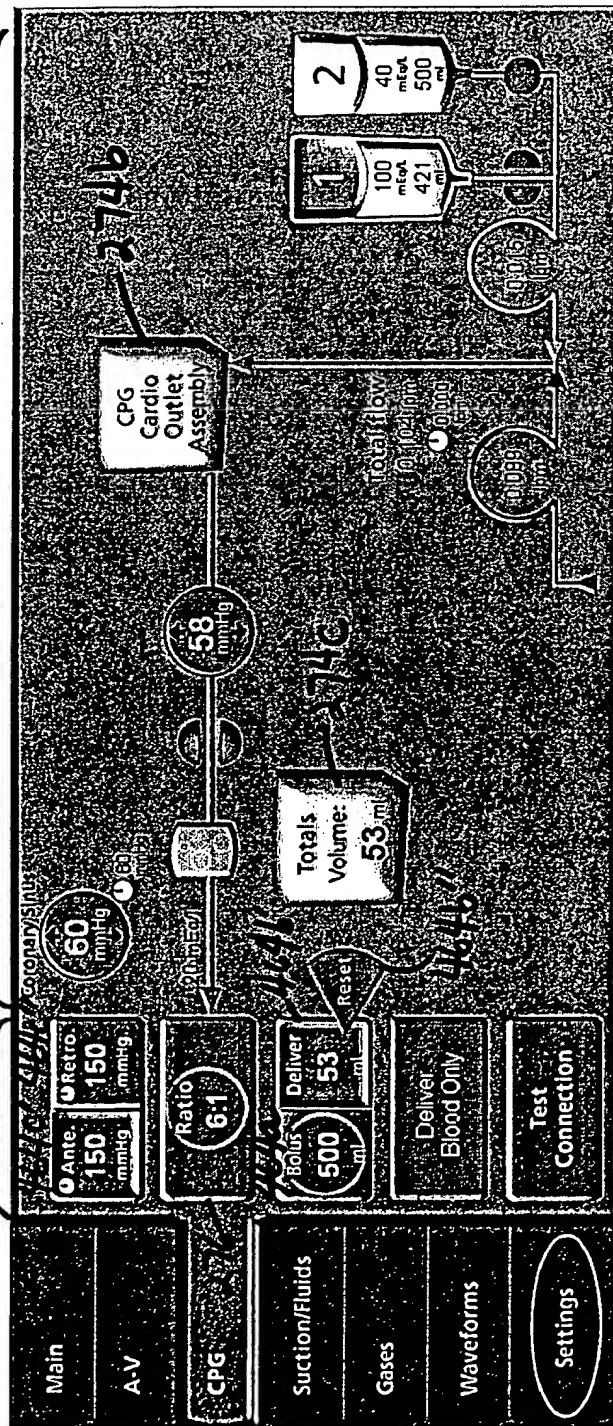


FIG. 31E

FIG. 32A

FIG. 32B



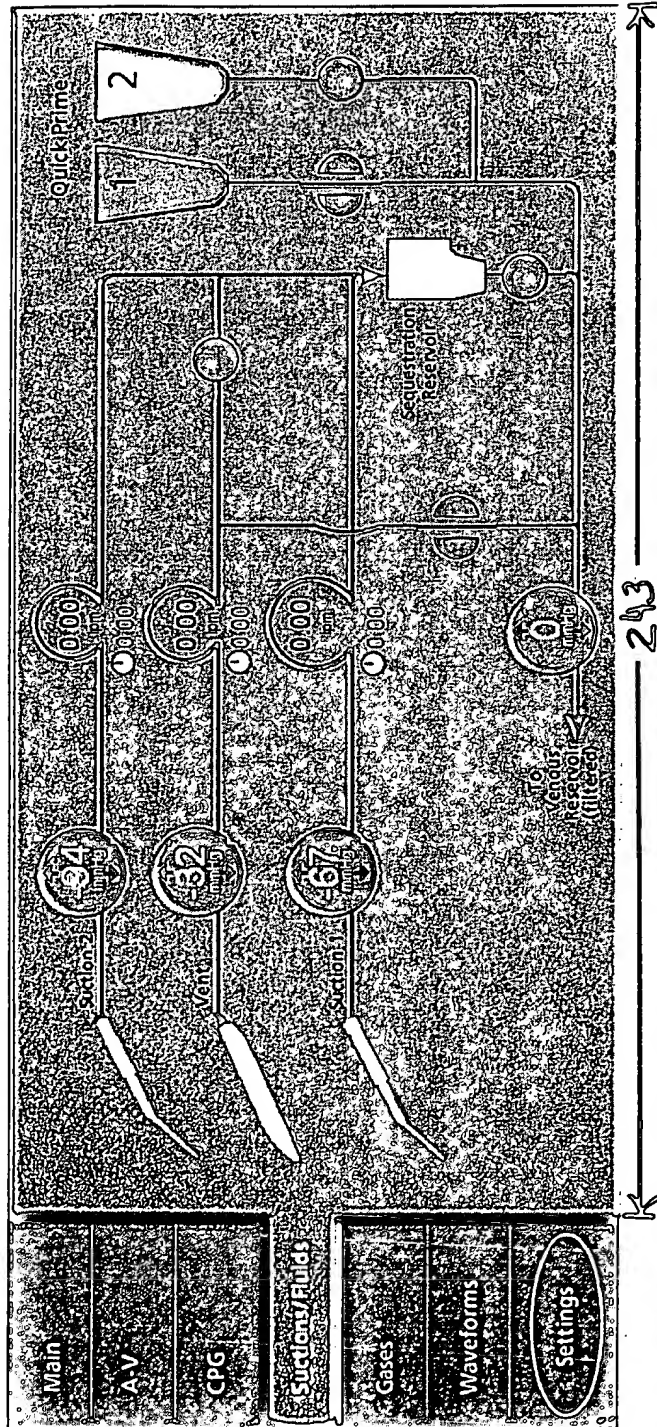


FIG. 32C

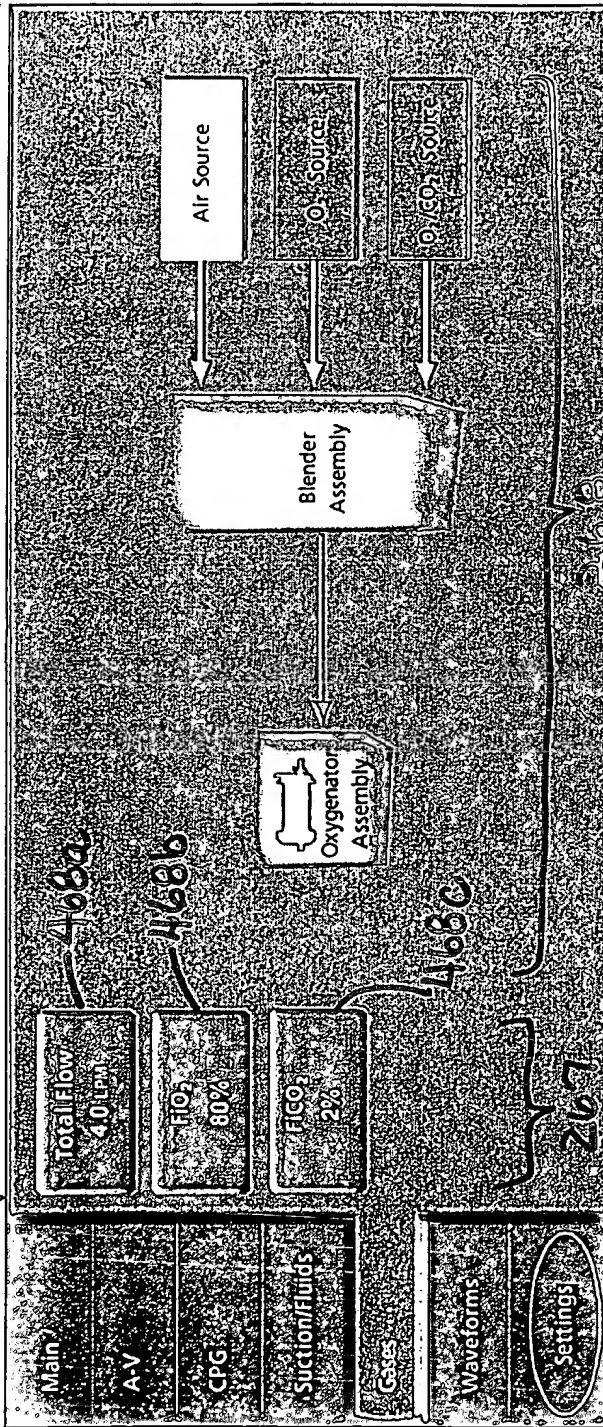
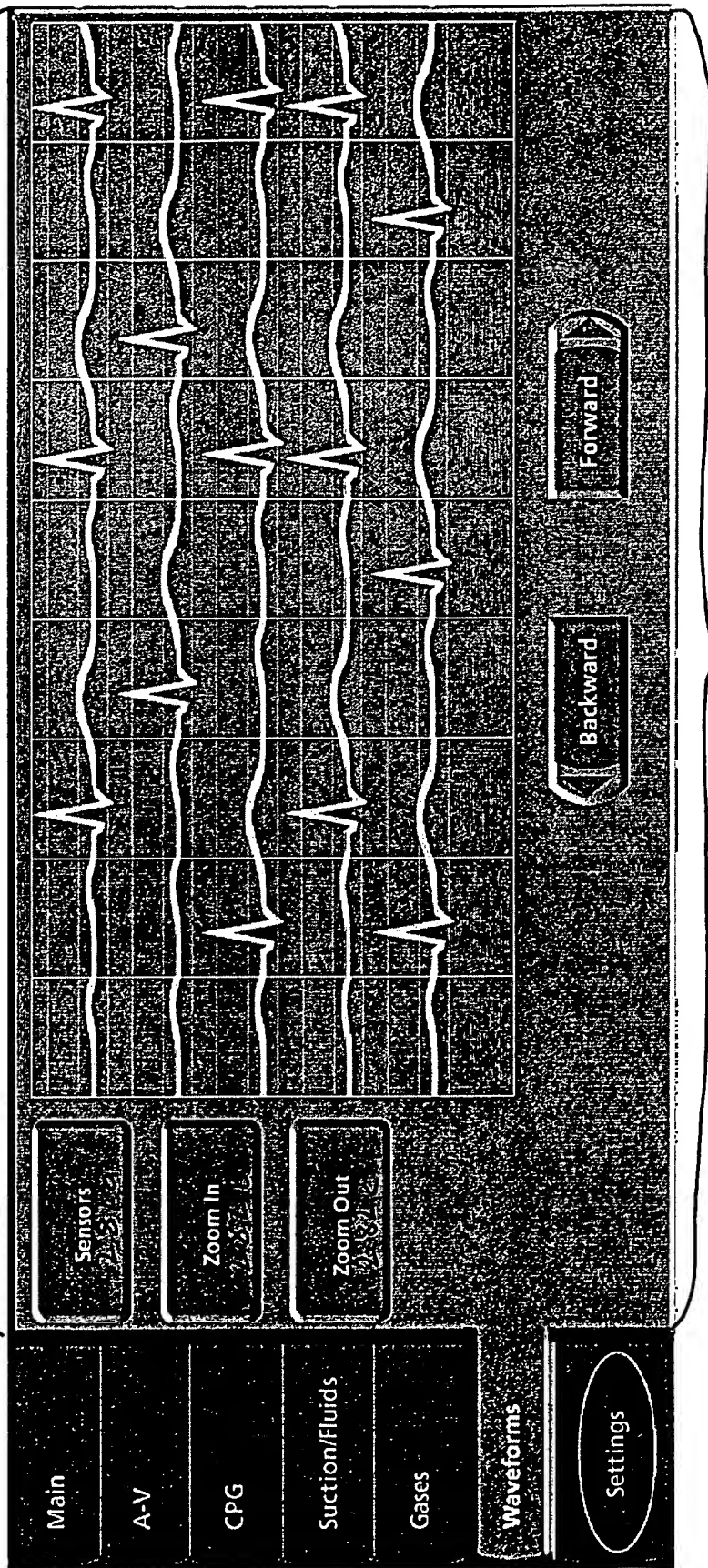


FIG. 32D

267
T09260" E62E9268



252-

243

FIG. 32E

Main

A-V

CPG

Suction/Fluids

Gases

Waveforms

Settings

Protocol

Sensors

CPG

Timers

Pulse

Other

Wake-Up Protocol

Display Settings

Factory Default

Factory Default

Current Protocol

Save Protocol

Mike's Protocol

Bill's Protocol

254

284

286

243

FIG. 33A

TD9260" E64E9560

Main	Protocol	Sensors	CPG	Timers	Pulse	Other
A-V						
CPG	Air Detectors	Bubble Sensor 1	Blender/Gas	Blender		
Suction/Fluids	Pressure Sensors	Arterial Line	Temp Sensors	Venous		
Gases	Level Detectors	Continuous Sensor	SAT/HCT	Warning Limits		
Waveforms						
Settings						

FIG. 33B

Air Detectors	Bubble Sensor 1	
	Bubble Sensor 1	✓
	Bubble Sensor 2	
Pressure Sensors	CPG Bubble Detector	

FIG. 33c

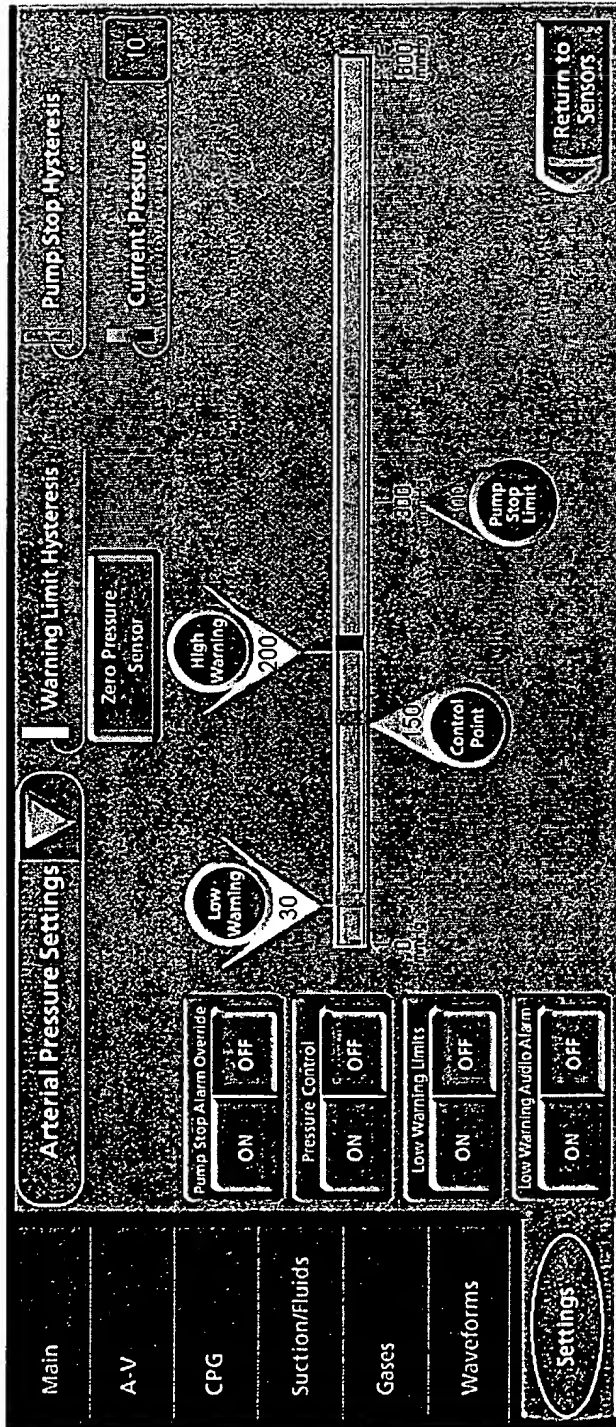


FIG. 33D

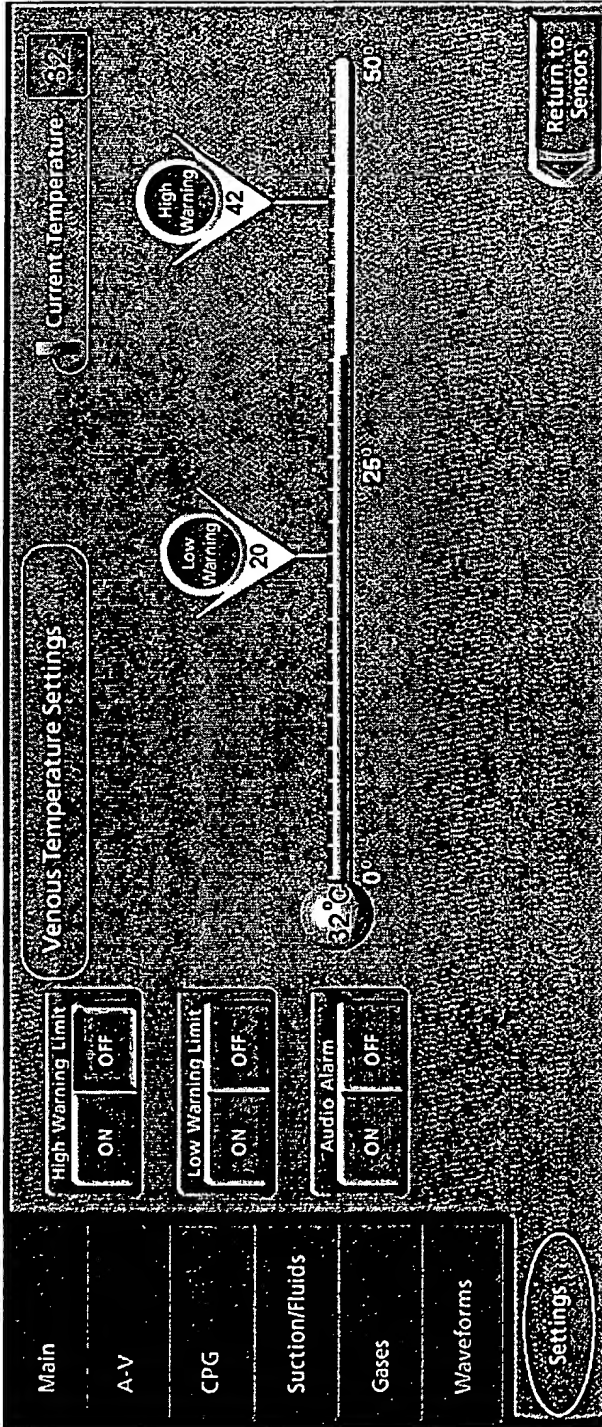


FIG. 33E

The image shows the control panel of a Medtronic Symplicity infusion pump. The panel is organized into several functional sections:

- Protocol:** Contains five buttons for alarm settings:
 - Bag Low Warning Alarm: ON/OFF
 - Bag Low Audio Alarm: ON/OFF
 - Bag Empty Pump Stop: ON/OFF
 - K+ High Warning Alarm: ON/OFF
 - K+ High Audio Alarm: ON/OFF
- Sensors:** A single button for sensor configuration.
- CPG (Continuous Pumping):** Includes buttons for 'Preset 1' through 'Preset 4'. Each preset has a 'Modify' button and a display showing volume (500 ml) and concentration (100 mEq/L).
- Timers:** A single button for timer settings.
- Pulse:** A single button for pulse settings.
- Other:** A single button for other functions.
- Configure Bolus:** Includes buttons for 'Mode', 'Volume' (displaying 500), and 'Bolus Count' (displaying 1).
- Select Delivery:** Includes buttons for 'Antegrade', 'Retrograde', 'Crystalloid only', and 'Blood/Crystalloid ratioed'.

F16-33F